NORTHWEST
MARINE
IRON WORKS

PORTLAND, OREGON

USS DULUTH (LPD-6)

CONTRACT PRICING PROPOSAL

Contract No. N00024-85-C-8506

Dated 16 June 86

Navy Item No. 992-11-002

Contract Modification No. A00003

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NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

PHONE: (503) 285-7557

TWX: 910-464-6107 NORMARINE PTL

16 June 86

Serial 7500-413

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, Washington 98115

Attention: Dan Enz - Code 609
Project Officer

Subject: USS DULUTH (LPD-6)
Navy Item No. 992-11-002
"Additional Repairs to Berthing Barge IX-502"

Reference: (a) Contract Modification A00003
(b) Contract No. N00024-85-C-8506
(c) FAR 15.804

Gentlemen:

In accordance with the above referenced material, we are pleased to submit our price for additional repairs to the berthing barge IX-502 of the USS DULUTH (LPD-6) ROH.

Our price is based on actual cost returns of the additional work as performed by NMIW aboard the IX-502. Our price as defined by reference (a) is as follows:

Target Cost:	$182,234.00
Target Profit:	$ 18,035.00
Target Price:	$200,269.00

Very truly yours,

NORTHWEST MARINE IRON WORKS

Gordon D. Newell

Gordon D. Newell
Asst. Project Manager

GDN:ms

NORTHWEST MARINE IRON WORKS

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Contract No. N00024-85-C-8506
Navy Item No. 992-11-002
Contract Modification No. A00003

I certify that this claim is made in good faith, that the supporting data is accurate and complete to the best of my knowledge and belief, and that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable.

William H. Zavin II
President

EXHIBIT "A"

CONTRACT PRICING PROPOSAL COVER SHEET

1. SOLICITATION/CONTRACT/MODIFICATION NO. N00024-85-C-8506

FORM APPROVED OMB NO. 3090-0116

NOTE: This form is used in contract actions if submission of cost or pricing data is required. *(See FAR 15.804-6(b))*

2. NAME AND ADDRESS OF OFFEROR *(Include ZIP Code)*
Northwest Marine Iron Works
5555 N. Channel Ave.
Portland, Oregon 97217

3A. NAME AND TITLE OF OFFEROR'S POINT OF CONTACT
Gordon D. Newell
Asst. Project Manager

3B. TELEPHONE NO.
(503) 285-7557

4. TYPE OF CONTRACT ACTION *(Check)*

	A. NEW CONTRACT		D. LETTER CONTRACT
X	B. CHANGE ORDER		E. UNPRICED ORDER
	C. PRICE REVISION/ REDETERMINATION		F. OTHER *(Specify)*

5. TYPE OF CONTRACT *(Check)*
☐ FFP ☐ CPFF ☐ CPIF ☐ CPAF
XX FPI ☐ OTHER *(Specify)*

6. PROPOSED COST *(A+B=C)*

A. COST	B. PROFIT/FEE	C. TOTAL
$182,234.00	$ 18,035.00	$ 200,269.00

7. PLACE(S) AND PERIOD(S) OF PERFORMANCE
Northwest Marine Iron Works, Portland, Oregon for duration of contract

8. List and reference the identification, quantity and total price proposed for each contract line item. A line item cost breakdown supporting this recap is required unless otherwise specified by the Contracting Officer. *(Continue on reverse, and then on plain paper, if necessary. Use same headings.)*

A. LINE ITEM NO.	B. IDENTIFICATION	C. QUANTITY	D. TOTAL PRICE	E. REF.
1	USS DULUTH (LPD-6) Contract No. N00024-85-C-8506 Additional Repairs to Berthing Barge IX-502 Contract Modification A00003	lot	$200,269.00	see Exhibit "B"

9. PROVIDE NAME, ADDRESS, AND TELEPHONE NUMBER FOR THE FOLLOWING *(If available)*

A. CONTRACT ADMINISTRATION OFFICE
Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, Washington 98115

B. AUDIT OFFICE
DCAA - US Court House, Room 206
SW Broadway and Main Streets
Portland, Oregon 97204

10. WILL YOU REQUIRE THE USE OF ANY GOVERNMENT PROPERTY IN THE PERFORMANCE OF THIS WORK? *(If "Yes," identify)*
☐ YES ☒ NO

11A. DO YOU REQUIRE GOVERNMENT CONTRACT FINANCING TO PERFORM THIS PROPOSED CONTRACT? *(If "Yes," complete Item 11B)*
☒ YES ☐ NO

11B. TYPE OF FINANCING *(✓ one)*
☐ ADVANCE PAYMENTS ☒ PROGRESS PAYMENTS
☐ GUARANTEED LOANS

12. HAVE YOU BEEN AWARDED ANY CONTRACTS OR SUBCONTRACTS FOR THE SAME OR SIMILAR ITEMS WITHIN THE PAST 3 YEARS? *(If "Yes," identify item(s), customer(s) and contract number(s))*
☐ YES ☒ NO

13. IS THIS PROPOSAL CONSISTENT WITH YOUR ESTABLISHED ESTIMATING AND ACCOUNTING PRACTICES AND PROCEDURES AND FAR PART 31 COST PRINCIPLES? *(If "No," explain)*
☒ YES ☐ NO

14. COST ACCOUNTING STANDARDS BOARD (CASB) DATA *(Public Law 91-379 as amended and FAR PART 30)*

A. WILL THIS CONTRACT ACTION BE SUBJECT TO CASB REGULATIONS? *(If "No," explain in proposal)*
☐ YES ☒ NO exempt - small business

B. HAVE YOU SUBMITTED A CASB DISCLOSURE STATEMENT *(CASB DS-1 or 2)*? *(If "Yes," specify in proposal the office to which submitted and if determined to be adequate)*
☒ YES ☐ NO to Contract Admin & DCAA listed above

C. HAVE YOU BEEN NOTIFIED THAT YOU ARE OR MAY BE IN NON-COMPLIANCE WITH YOUR DISCLOSURE STATEMENT OR COST ACCOUNTING STANDARDS? *(If "Yes," explain in proposal)*
☐ YES ☒ NO

D. IS ANY ASPECT OF THIS PROPOSAL INCONSISTENT WITH YOUR DISCLOSED PRACTICES OR APPLICABLE COST ACCOUNTING STANDARDS? *(If "Yes," explain in proposal)*
☒ YES ☐ NO

This proposal is submitted in response to the RFP contract, modification, etc. in Item 1 and reflects our best estimates and/or actual costs as of this date.

15. NAME AND TITLE *(Type)*
William H. Zavin II
President

16. NAME OF FIRM
Northwest Marine Iron Works
Portland, Oregon

17. SIGNATURE
William H. Zavin II

18. DATE OF SUBMISSION
6-16-86

NSN 7540-01-142-0645 1411-101 STANDARD FORM 1411 (10-83) Prescribed by GSA FAR (48 CFR) 53.215-2(c)

NWMAR129643

EXHIBIT "B"

PRICE SUMMARY OF CONTRACT MODIFICATION A00003

1.	Direct Labor Straight Time: (See Exhibits "D", "D-I" & "L")	2,256 hrs @ $19.62 =	$ 44,263.00
2.	Direct Labor Overtime: (See Exhibit "D", "D-I" & "L")	468 hrs @ $26.74 =	$ 12,514.00
3.	Overhead: (See Exhibit "L")	2,724 hrs @ $ 5.68 =	$ 15,472.00
4.	G & A: (See Exhibit "L")	2,724 hrs @ $ 2.26 =	$ 6,156.00
5.	Materials & Subcontractors: (See Exhibit "D", "D-II" & "L")		$ 63,450.00
6.	Port of Portland:	10% of labor & material =	$ 14,186.00
7.	Port of Portland Crane & Utilities (See Exhibit "D", paragraph III)	=	$ 24,313.00
8.	Fee: (10% of Fee Bearing Cost)		$ 18,035.00
9.	FCOM:	2,724 hrs x $ .69 =	$ 1,880.00
Total:			$200,269.00

28.25

EXHIBIT "C"

RELATIONSHIP OF CONTRACT MODIFICATION A00003 WITH ORIGINAL CONTRACT SPECIFICATION 992-11-002, CONTRACT MODIFICATION A00002 AND PRICE PROPOSAL NO. 2A

The Living Barge (IX-502) for the ROH of the USS DULUTH (LPD-6) arrived at NMIW's facility in need of a large number of repairs, upgrading and modifications to make it suitable for habitation by the Ship's Force of the DULUTH. Due to the extremely short period of time available to perform all the necessary work before the mandated milestone of crew move-off, two each "max mods" were issued to NMIW in order to provide funding for this work without delaying crew move-off. The following explanations and rationale details all work performed on the IX-502. This discussion is necessary to properly put contract modification A00003 in perspective.

A. By specification 992-11-002 (NMIW 9912), NMIW was required to install and activate normal services for the duration of the DULUTH contract. Paragraph 3.13 and following paragraphs required NMIW to "light-off and check. . .systems and associated equipment for proper operation. . ." Subparagraph 3.13.4 contained a "reserved" amount of mandays and material dollars. These amounts were 400 mandays, i.e. 3200 hours, and $20,000 material dollars. Immediately upon commencement of system light-offs and various other surveys by cognizant personnel including SupShip Seattle, NMIW Superintendents and the Barge Manager from San Diego, it was quickly decided to activate this "reserved" fund to bring IX-502 up to livable standards. At that point, NMIW activated Item 9912-A to capture labor and dollar expenditures in order to comply with subparagraph 3.13.4.1 which required documentation of the "reserved" usage. These "reserved" amounts were soon dissipated and price proposal no. 2A (Exhibit "G") was issued to document the work accomplished under the "reserved" amounts. This document, however, was not issued to the yard as it was after the fact.

B. It quickly became apparent that the "reserved" amount would not be sufficient to cover all the necessary work so SupShip issued contract modification A00002 (Exhibit "E") for a max mod price of $250,000. NMIW was instructed to proceed without delay and continue to accomplish work as needed. NMIW did not at that point issue an additional charge number, however lines 1-4 and 6-9 of mod A00002 were issued as NMIW 9912-A and lines 5 and 10 of the same mod were issued as NMIW 9912-D to provide detailed guidance to NMIW production personnel. At the time, all cognizant personnel involved decided the 3200 hours and $20,000 could be extrapalated from 9912-A and 9912-D to determine the cost of mod A00002.

EXHIBIT "C"

RELATIONSHIP OF CONTRACT MODIFICATION A00003 WITH

ORIGINAL CONTRACT SPECIFICATION 992-11-002,

CONTRACT MODIFICATION A00002 AND PRICE PROPOSAL NO. 2A

C. Again, it became apparent that mod A00002 would be insufficient to complete the necessary work before crew move-off. NMIW estimated the cost of completing the remaining work and was issued contract modification A00003 to allow the work to be completed without delay and prior to crew move-off. All work was completed prior to crew move-off. The labor charges for mod A00003 were accumulated against NMIW Item No.'s 9912-A, 9912-E and 9912-F.

D. For the above reasons, NMIW is submitting actual cost returns to demonstrate cost of performing contract modification A00003.

EXHIBIT "D"

SUPPORTING COST DATA AND RATIONALE

I. Labor Explanation (See Exhibit "D-I", pages 1 through 2)

A. Original specification 992-11-002 (NMIW 9912) contained 400 mandays (3200 hours) of reserved labor as noted on specification paragraph 3.13.4. These reserved hours were not transferred from Item 9912 to 9912-A to establish a budget baseline when 9912-A was activated (See Exhibit "C", paragraph A). In order to determine the amount of labor hours expended for both contract modifications A00002 and A00003, it is first necessary to subtract the 3200 hours from the total of NMIW items 9912-A, 9912-D, 9912-E and 9912-F. (See the following explanation of NMIW Item No.'s)

It must be understood that all labor charges shown on 9912-A are combination of the reserved amount and contract modifications A00002 and A00003. All original specification labor expended were charged against parent item 9912 (992-11-002). This situation of over-lapping labor charges (as well as material and subcontractor purchase orders) was due to the extremely short period of time NMIW had to accomplish the additonal work.

NMIW Item No. Explanation

9912-A	Combination of labor capture for original specification reserved labor and labor capture (partial) for mods A00002 and A00003.
9912-B	Deletion of IX-502 fumigation (Price Proposal Serial No. 1A) not applicable for pricing certification.
9912-C	NMIW internal item no. for subcontract of temporary sewage transport not applicable for pricing certification.
9912-D	Capture of labor for lines 5 and 10 of mod A00002 attachment, for installation of telephone and entertainment systems aboard IX-502.
9912-E	Partial capture of labor for mod A00003.
9912-F	Capture of labor for mod A00003 attachment item 36.
9912-G	Reefer compressors repairs aboard IX-502, price proposal serial no. 200A. Not applicable for pricing certification.

exhibit D

EXHIBIT "D"

SUPPORTING COST DATA AND RATIONALE

I. Labor Explanation (cont.)

B. Recap of emergent labor for IX-502 (See page 1 and 2 of Exhibit "D-I").

Item No.	S.T.	O.T.	Total Hours
9912-A	7823.5	1245.5	9069
9912-B	n/a		
9912-C	n/a		
9912-D	263	-0-	263
9912-E	63	-0-	63
9912-F	521.5	2.5	524
9912-G	n/a		
Subtotal	8671	1248	9919
Deletion of Reserved Hours.			
	(3200)	-0-	(3200)
Total	5471	1248	6719
Labor hours applicable to contract modification A00002.			
	(3215)	(780)	(3995)
Labor hours applicable to contract modification A00003			
	2256	468	2724

LJTD.REP.A

LABOR BY ITEM - FOR JOBS

JOB	ITEM	CR FT	I----- DAILY FOR: 06-01-86 -----I S.T. HOURS	O.T. HOURS	PRDN HOURS	I---------- JOB - TO - DATE AMOUNTS -------- THRU - 06-0 S.T. HOURS	O.T. HOURS	TOTAL HOURS	BUDG ESTIM	PCT USED	PCT ERND
7500	9912		SERVICES FOR BARRACKS SHIP								
		1	0.0	0.0	0.0	192.5	2.5	195.0			
		2	0.0	0.0	0.0	77.0	9.0	86.0			
		3	0.0	0.0	0.0	2.0	0.0	2.0			
		6	0.0	0.0	0.0	53.0	0.0	53.0			
		7	0.0	0.0	0.0	433.0	55.5	488.5			
		8	0.0	0.0	0.0	3585.0	337.0	3922.0			
		9	0.0	0.0	0.0	492.5	76.5	569.0			
		11	0.0	0.0	0.0	4.0	0.0	4.0			
		14	0.0	0.0	0.0	2.0	0.0	2.0			
		17	0.0	0.0	0.0	225.5	8.5	234.0			
		EXP									
	DIRECT	TOTAL	0.0	0.0	0.0	5066.5	489.0	5555.5	4249	130.7%	95.0%
7500	9912A		ADDITIONAL REPAIRS IX-502								
		1	0.0	0.0	0.0	1436.5	91.5	1528.0			
		2	0.0	0.0	0.0	1123.5	330.0	1453.5			
		3	0.0	0.0	0.0	9.0	2.0	11.0			
		6	0.0	0.0	0.0	650.0	7.0	657.0			
		7	0.0	0.0	0.0	873.5	135.5	1009.0			
		8	0.0	0.0	0.0	2084.5	458.0	2542.5			
		9	0.0	0.0	0.0	464.5	99.0	563.5			
		11	0.0	0.0	0.0	611.0	106.0	717.0			
		14	0.0	0.0	0.0	176.0	3.0	179.0			
		17	0.0	0.0	0.0	395.0	13.5	408.5			
		EXP									
	DIRECT	TOTAL	0.0	0.0	0.0	7823.5	1245.5	9069.0	3995	227.0%	100.0%
7500	9912B		SERVICES FOR BARRACKS SHIP; ACCOMPLISH								
		1	0.0	0.0	0.0	4.0	0.0	4.0			
		11	0.0	0.0	0.0	4.0	0.0	4.0			
	DIRECT	TOTAL	0.0	0.0	0.0	8.0	0.0	8.0	0	0.0%	0.0%
7500	9912C		PUMP, TRANSPORT, & DISCHARGE SEWAGE FROM LIVING BARGE								
	DIRECT	TOTAL	0.0	0.0	0.0	0.0	0.0	0.0	0	0.0%	0.0%
7500	9912D		TELEPHONE & ENTERTAINMENT SYSTEM; SHIPS BARRACK								
		1	0.0	0.0	0.0	254.0	0.0	254.0			
		6	0.0	0.0	0.0	8.0	0.0	8.0			
		7	0.0	0.0	0.0	1.0	0.0	1.0			
	DIRECT	TOTAL	0.0	0.0	0.0	263.0	0.0	263.0	0	0.0%	0.0%

EXHIBIT "D-I" - Page 1 of 2

LJTD.REP.A

LABOR BY ITEM - FOR JOBS

I----- DAILY FOR: 06-01-86 -----I I---------- JOB - TO - DATE AMOUNTS -------- THRU - 06-0

JOB	ITEM	CR FT	S.T. HOURS	O.T. HOURS	PRDN HOURS	S.T. HOURS	O.T. HOURS	TOTAL HOURS	BUDG ESTIM	PCT USED	PCT ERND
7500	9912E		SERVICES FOR BARRACKS SHIP: ACCOMPLISH								
		2	0.0	0.0	0.0	6.0	0.0	6.0			
		6	0.0	0.0	0.0	1.0	0.0	1.0			
		7	0.0	0.0	0.0	26.0	0.0	26.0			
		9	0.0	0.0	0.0	2.0	0.0	2.0			
		14	0.0	0.0	0.0	22.0	0.0	22.0			
		17	0.0	0.0	0.0	6.0	0.0	6.0			
	DIRECT TOTAL		0.0	0.0	0.0	63.0	0.0	63.0	3310	1.8%	95.0%
7500	9912F		ADDITIONAL REPAIRS TO BARGE								
		1	0.0	0.0	0.0	30.0	0.0	30.0			
		2	0.0	0.0	0.0	91.5	0.5	92.0			
		3	0.0	0.0	0.0	2.0	0.0	2.0			
		6	0.0	0.0	0.0	3.0	0.0	3.0			
		7	0.0	0.0	0.0	297.5	2.0	299.5			
		8	0.0	0.0	0.0	17.5	0.0	17.5			
		11	0.0	0.0	0.0	35.0	0.0	35.0			
		14	0.0	0.0	0.0	43.0	0.0	43.0			
		17	0.0	0.0	0.0	2.0	0.0	2.0			
	DIRECT TOTAL		0.0	0.0	0.0	521.5	2.5	524.0	0	0.0%	0.0%
7500	9912G		SERVICES FOR BARRACKS SHIP - #1 REFRIGERATION COMPRESSOR								
		1	0.0	0.0	0.0	20.0	0.0	20.0			
	DIRECT TOTAL		0.0	0.0	0.0	20.0	0.0	20.0	11	181.8%	100.0%
7500	9915		MATERIAL FOR ADMINISTRATIVE SERVICES								
		7	0.0	0.0	0.0	4.0	0.0	4.0			
		EXP NP	0.0	0.0	0.0	1137.5	25.0	1162.5			
	DIRECT TOTAL		0.0	0.0	0.0	4.0	0.0	4.0	0	0.0%	0.0%
7500	9916		ADDITIONAL FLOATS FOR PIER								
		8	0.0	0.0	0.0	8.0	2.0	10.0			
		17	0.0	0.0	0.0	5.0	0.0	5.0			
	DIRECT TOTAL		0.0	0.0	0.0	13.0	2.0	15.0	0	0.0%	0.0%

EXHIBIT "D-I" - Page 2 of 2

NWMAR129651

EXHIBIT "D"

SUPPORTING COST DATA AND RATIONALE

II. Purchase Order and Inventory Expenditure Explanation
(See Exhibit "D-II" pages 1 through 42)

Note: Purchase Orders include material and subcontractor orders.

A. The original specification 992-11-002 (NMIW 9912) contained a reserved dollar amount of $20,000. This amount must be subtracted against the purchase order amount in order to determine the amount of money expended in purchases for both contract modifications A00002 and A00003. Please refer to Exhibit "D", paragraph I.A for further explanation.

B. Some purchase orders issued against emergent work for IX-502 were erroneously issued against parent item 9912. These are shown on Exhibit "D-II", pages 1 through 5. These purchase orders are 31129, 31130, 31545, 31608, 31611*, 31812, 32031, 32110, 32150, 32151, 32821, 32826, 32967, 33098, 33175, and 33534.

*On P.O. 31611, Arent Machinery Co. was subcontracted to accomplish original specification item paragraph 3.13 to light-off and check galley and laundry equipment. This work was issued to Arent at an agreed price of $500. Due to the numerous deficiencies of this equipment, Arent was retained to repair this equipment. However, a second P.O. was not issued to Arent for the sake of expediency. The following 9912 "carry over" P.O. amount reflects the final price of repairs less the initial start-up cost of $500.

C. Recap of emergent purchase order and inventory expenditures for IX-502. (See Exhibit "D-II" pages 1 through 42)

9912 (carry over)	$ 9,424.00
9912-A	$ 98,564.00
9912-D	$ 30,679.00
9912-F	$ 8,309.00
Inventory	$ 11,474.00
Subtotal	$158,450.00
Deletion of Reserved Dollars	($ 20,000.00)
Total	$138,450.00

Purchase order and inventory amounts applicable to contract modification A00002 ($ 75,000.00)

Purchase order and inventory amounts applicable to contract modification A00003 $ 63,450.00

:TEM: 9912 CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 31118-	AMSCO REFRIGERATION, INC. CRFT: 20 FOR: HOWELL	001	FURNISH LABOR AND MATERIAL TO PER- FORM THE SERVICES TO ACTIVATE A.C. UNITS, REFRIGERATION UNITS, WATER	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$500.00 $0.00 $846.00	E F
PO#: 31129-	AMSCO REFRIGERATION, INC. CRFT: 24 FOR: HUGET	001	SERVICE ON #2 REEFER PLANT ON 10/8/85. REMOVE AND REPLACE LEAKING SHAFT SEAL ON COMPRESSOR.	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$852.80 $0.00 $852.80	C F
PO#: 31130-	AMSCO REFRIGERATION, INC. CRFT: 24 FOR: HUGET	001	REFRIGERATION SERVICES AS FOLLOWS: A) 10/14 - PUMP DOWN FOR BARGE	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$846.00 $0.00 $846.00	C F
PO#: 31382-01	PARAMOUNT PEST CONTROL CRFT: 08 FOR: VETERE	001	3.14.1 FUMIGATE THE BARRACKS SHIP VIKANE GAS FUMIGATE OR EQUAL IN ACCORDANCE WITH LOCAL, STATE, &	LOT	ORD: RCV: INV:	1- 0 0	PO : RECEIVE: INVOICE:	$3,000.00- $0.00 $0.00	C F F
PO#: 31382-	PARAMOUNT PEST CONTROL CRFT: 08 FOR: VETERE	001	3.14.1 FUMIGATE THE BARRACKS SHIP VIKANE GAS FUMIGATE OR EQUAL IN ACCORDANCE WITH LOCAL, STATE AND	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$3,000.00 $0.00 $0.00	C F
PO#: 31386-	PACIFIC NORTHWEST BELL CRFT: 01 FOR: KINGREY	004	OFF PREM. LOCAL, DID LINES BERTH BARGE, BERTH 304 (9-25-85). XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD: RCV: INV:	5 0 0	PO : RECEIVE: INVOICE:	$1,000.00 $0.00 $341.15	E F
PO#: 31545-	WAJAX PACIFIC FIRE EQUIPMENT CRFT: 07 FOR: LUCIA	001	50' LENGTHS, 2-1/2" 400# TEST FIRE HOSE W/M & F ALUMINUM NST ENDS.	EA	ORD: RCV: INV:	25 0 0	PO : RECEIVE: INVOICE:	$2,137.50 $0.00 $1,881.00	C F
		003	50' LENGTHS, 1-1/2" 400# TEST FIRE HOSE W/M & F ALUMINUM NST ENDS.	EA	ORD: RCV: INV:	10 0 0	PO : RECEIVE: INVOICE:	$553.00 $0.00 $553.00	C F
		005	1-1/2" PLASTIC, 3-WAY NST NOZZLES.	EA	ORD: RCV: INV:	9 0 0	PO : RECEIVE: INVOICE:	$99.00 $0.00 $99.00	C F
PO#: 31608-	PARAMOUNT SUPPLY CO. CRFT: 07 FOR: LUCIA	001	0-200# 1/4" BOT. CONN 2-1/2" FACE FILLED PRESS. GAGE	EA	ORD: RCV: INV:	11 0 0	PO : RECEIVE: INVOICE:	$203.50 $0.00 $203.50	C F
		003	1-1/2" MPT X 1-1/2" MNST ALUM ADAPTERS	EA	ORD: RCV: INV:	11 0 0	PO : RECEIVE: INVOICE:	$96.25 $0.00 $96.25	C F
		005	2-1/2" MPT X 1-1/2" MNST ALUM. ADAPTERS	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$48.50 $0.00 $48.50	C F
		007	2-1/2" MPT X 2-1/2 NST SWIVEL HOSE ADAPTORS ALUM.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$87.30 $0.00 $87.30	C F

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TEM: 9912 CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 31608-	PARAMOUNT SUPPLY CO.	009	2-1/2" NST HOSE CAPS W/CHAIN ALUM.	EA	ORD:	2	PO :	$34.00	C
	CRFT: 07 FOR: LUCIA				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$34.00	F
		011	2" SCRD BRASS WATER REG. 125#	EA	ORD:	1	PO :	$230.00	C
			50# RANGE		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$230.00	F
PO#: 31611-	ARENT MACHINERY CO.	001	FURNISH SERVICEMAN TO OPERATE AND	LOT	ORD:	1	PO :	$500.00	E
	CRFT: 13 FOR: T. HOWELL		PROVE IN GOOD ORDER THE LAUNDRY		RCV:	0	RECEIVE:	$0.00	
			EQUIPMENT AND GALLEY, DISHWASHER		INV:	0	INVOICE:	$3,479.99	F
PO#: 31614-	GOODALL RUBBER CO	001	50' LENGTHS 2" STEAM HOSE W/DIXON	EA	ORD:	6	PO :	$3,636.00	C
	CRFT: 07 FOR: LUCIA		GROUND JOINT COUPLERS W/ADDITIONAL		RCV:	0	RECEIVE:	$0.00	
			OPPOSITE ENDS ON EACH END.		INV:	0	INVOICE:	$3,636.00	F
PO#: 31689-	ASSOCIATED HOSE PRODUCTS	001	25' LENGTHS 3" SEWAGE HOSE W/CAM-	EA	ORD:	2	PO :	$235.30	C
	CRFT: 07 FOR: LUCIA		LOK ENDS, MALE AND FEMALE.		RCV:	0	RECEIVE:	$0.00	
			STEEL OR ALUMINUM.		INV:	0	INVOICE:	$235.30	F
PO#: 31768-	MT. HOOD CHEMICAL CORPORATION	001	STEEL-GLO STAINLESS STEEL CLEANER	CSE	ORD:	1	PO :	$49.85	C
	CRFT: 09 FOR: VETERE		18 OZ		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$49.85	F
PO#: 31812-	PARAMOUNT SUPPLY CO.	001	1-1/2 X 1-1/2 MP X MNST.	EA	ORD:	5	PO :	$47.50	C
	CRFT: 07 FOR: HORN/PETERSON		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$47.50	F
PO#: 31911-	WALTER E. NELSON COMPANY	001	PLATERS BRUSHES #446, BLOCK	EA	ORD:	6	PO :	$15.42	C
	CRFT: 08 FOR: VETERE		12-3/4 X 1-5/16" X 9/16 TRIM 1"		RCV:	0	RECEIVE:	$0.00	
			TUFTS 4 BY 18		INV:	0	INVOICE:	$15.42	F
PO#: 31918-	WALTER E. NELSON COMPANY	001	NON SLIP WAX SELF POLISHING	GAL	ORD:	20	PO :	$167.00	C
	CRFT: 08 FOR: VETERE				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$167.00	F
		002	SCRUB PADS SCOTCHBRITE	EA	ORD:	6	PO :	$34.80	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$34.80	F
PO#: 32031-	EOFF ELECTRIC COMPANY	001	T & B LUG #54120 600 MCM	EA	ORD:	12	PO :	$103.08	C
	CRFT: 01 FOR: KINGREY		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$125.08	F
PO#: 32053-	PACK N PLUS	001	409 CLEANER IN 2 QT PLASTIC	CSE	ORD:	4	PO :	$122.80	C
	CRFT: 09 FOR: VETERE		BOTTLES		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$122.80	F
PO#: 32054-	LLOYD CTR. CLEANERS & TAILORING	001	(545 EA) BLUE CURTAINS AND	LOT	ORD:	1	PO :	$900.00	E
	CRFT: 09 FOR: VETERE		(279 EA) GOLD CURTAINS TO BE DRY		RCV:	0	RECEIVE:	$0.00	
			CLEANED		INV:	0	INVOICE:	$1,321.00	F

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ITEM: 9912 CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32064-	MT. HOOD CHEMICAL CORPORATION CRFT: 09 FOR: VETERE	001	STEEL GLO STAINLESS STEEL CLEANER 18 OZ	CSE	ORD: RCV: INV:	3 0 0	PO : RECEIVE: INVOICE:	$140.55 $0.00 $140.55	C F
PO#: 32110-	TAYLOR ELECTRIC SUPPLY CRFT: 01 FOR: KINGREY/HORN	001	T & B LUG #54120 600 MCM.	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$54.54 $0.00 $54.54	C F
PO#: 32150-	INDUSTRIAL VALVE OF OREGON CRFT: 07 FOR: BENNETT	002	1-1/2 WATTS #152A, STEAM REDUCING VALVE. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$271.00 $0.00 $271.00	C F
PO#: 32151-	APOLLO MARINE SERVICES CRFT: 01 FOR: KINGREY/HORN	001	T & B LUG #54120 600 MCM.	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$59.22 $0.00 $59.22	C F
PO#: 32179-	WALTER E. NELSON COMPANY CRFT: 09 FOR: VETERE	001	7012-60" HARDWOOD HANDLE FOR MOP 12"	EA	ORD: RCV: INV:	4 0 0	PO : RECEIVE: INVOICE:	$41.60 $0.00 $41.60	C F
		002	(12 EA) 94011 12" APPLICATOR PADS ABOVE ITEMS OR EQUAL FOR APPLYING LIQUID FLOOR WAX	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$43.20 $0.00 $43.20	C F
PO#: 32189-	DUBOIS CHEM COMPANY CRFT: 09 FOR: VETERE	001	PRIME GENERAL CLEANER PRODUCT #03360 JS4110165-1	GAL	ORD: RCV: INV:	55 0 0	PO : RECEIVE: INVOICE:	$403.15 $0.00 $488.42	C F
PO#: 32221-	PORT OF PORTLAND CRFT: 20 FOR: HUGET	002	(992-11-002) SERVICES TO PROVIDE AIR, SEWAGE DISPOSAL, POTABLE WATER, FIRE PROTECTION,	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$133,644.00 $0.00 $113,646.31	E P
PO#: 32397-	WALTER E. NELSON COMPANY CRFT: 08 FOR: VETERE	002	WINDEX WINDOW CLEANER 32 OZ BOTTLES W/SPRAYER (12 TO CASE)	CSE	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$34.50 $0.00 $34.50	C F
		003	PINE SOL 1 GAL PLASTIC BOTTLES (6 PER CASE)	CSE	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$8.95 $0.00 $53.70	C F
		004	409 CLEANER 2 QT SIZE XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	CSE	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$55.00 $0.00 $55.00	C F
PO#: 32408-	MT. HOOD CHEMICAL CORPORATION CRFT: 08 FOR: VETERE	001	STEEL GLO STAINLESS STEEL CLEANER 18 OZ.	CSE	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$99.70 $0.00 $99.70	C F
PO#: 32455-	NORTHWEST TESTING LABORATORY CRFT: 07 FOR: LEE WILSON	001	POTABLE WATER CHEM TEST, NORTHWEST TESTING LAB, AS PER SPEC. OF YRBM. 0800 05 OCT 1985.	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$300.00 $0.00 $489.65	E F

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	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
TEM: 9912	CUST#: 992-11-002								
PO#: 32485-	CROSBY & OVERTON, INC. CRFT: 08 FOR: VETERE	001	TO PUMP OUT C.H.T. TANK AS NEEDED	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$1,000.00 $0.00 $630.00	E F
PO#: 32486-	MT. HOOD CHEMICAL CORPORATION CRFT: 09 FOR: VETERE	001	STEEL GLO STAINLESS STEEL CLEANER 18 OZ.	CSE	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$93.70 $0.00 $93.70	C F
PO#: 32574-	WALTER E. NELSON COMPANY CRFT: 09 FOR: VETERE	001	MR. MUSCLE OVEN CLEANER IN AIROSOL CANS	CSE	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$2.00 $0.00 $14.00	C F
		002	WENCO SAFE ROUND METALIC FLOOR FINISH NON SKID	GAL	ORD: RCV: INV:	15 0 0	PO : RECEIVE: INVOICE:	$129.75 $0.00 $129.75	C F
PO#: 32821-	W & O SUPPLY, INC. CRFT: 07 FOR: MERLIN	001	3/4" 3000# SCREWED STEEL COUPLING	EA	ORD: RCV: INV:	25 0 0	PO : RECEIVE: INVOICE:	$62.50 $0.00 $62.50	C F
		002	1-1/2" 3000# SCREWED STEEL COUPLING.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$17.80 $0.00 $17.80	C F
PO#: 32826-	CECILWARE CORPORATION CRFT: 02 FOR: GEO MICHEL	001	TEMPERATURE KNOB FOR AUTOMATIC COFFEE URN. FE-CRS-33	EA	ORD: RCV: INV:	3 0 0	PO : RECEIVE: INVOICE:	$10.50 $0.00 $10.50	C F
		002	AIR FREIGHT.	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$10.00 $0.00 $4.90	E F
PO#: 32967-	STANDARD STEEL CO. CRFT: 02 FOR: MICHEL	001	#13 - .642 X 1.75 EXP. - FLATTENED STEEL.	EA	ORD: RCV: INV:	5 0 0	PO : RECEIVE: INVOICE:	$96.00 $0.00 $96.00	C F
PO#: 33098-	INDUSTRIAL VALVE OF OREGON CRFT: 07 FOR: LEE WILSON	001	3" FLGD. STEEL 150# SWING CHECK VALVES.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$623.00 $0.00 $623.00	C F
PO#: 33175-	WAJAX PACIFIC FIRE EQUIPMENT CRFT: 07 FOR: WILSON	001	3" FEMALE CAMLOCK FITTINGS X 3" FPT	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$33.22 $0.00 $33.22	C F
		002	3" MALE CAMLOCK FITTINGS X 3" FPT XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$18.72 $0.00 $18.71	C F
PO#: 33296-	PARAMOUNT SUPPLY CO. CRFT: 07 FOR: LUCIA	001	4" IPS SCH. 80 PVC PLASTIC PIPE.	FT	ORD: RCV: INV:	1000 0 0	PO : RECEIVE: INVOICE:	$1,650.00 $0.00 $1,650.00	C F

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ITEM: 9912 CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 33296-	PARAMOUNT SUPPLY CO. CRFT: 07 FOR: LUCIA	002	4" PVC FLGS.	EA	ORD:	102	PO :	$561.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$561.00	F
		003	4" M PVC X 3" FPT PVC ADAPTORS.	EA	ORD:	2	PO :	$33.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$33.00	F
		004	QT'S PVC CEMENT.	EA	ORD:	6	PO :	$55.50	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$55.50	F
		005	GALLON SOLVENT.	EA	ORD:	1	PO :	$25.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$25.00	F
		006	4" CLN OUT.	EA	ORD:	1	PO :	$29.45	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$29.45	F
PO#: 33534-	ALLIED SAFE & VAULT CO. CRFT: 20 FOR: HOWELL	001	SERVICES TO REPAIR SAFE IN NCC OFFICE ON IX-502	LOT	ORD:	1	PO :	$75.00	E
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$88.80	F
PO#: 34017-	STEAM SUPPLY & RUBBER COMPANY CRFT: 01 FOR: KINGREY	001	ASCO #8222B94 SOLENOID VALVE 1/2 2 N.C. 0-50 PSI STEAM	EA	ORD:	1	PO :	$81.60	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$81.60	F
PO#: 34045-	WALTER E. NELSON COMPANY CRFT: 09 FOR: VETERE	001	(6 PER CSE) PINE SOL IN 1 GAL PLASTIC BOTTLES	CSE	ORD:	1	PO :	$8.95	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$53.70	F

ITEM 9912 TOTAL	PO :	$152,271.70	E
	RECEIVE:	$0.00	
	INVOICE:	$135,142.76	P
	RTV :	$0.00	E
	CREDIT :	$0.00	

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212,368.÷
17,788.=
11.9388351698 *

Additional

CA

9912A

CA

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Status.

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~~99,804. *~~

ITEM: 9912A CUST#: 992-11-002	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 31141-	MARINERS SUPPLY COMPANY, INC.	001	3/8" X 6" GALV. TURNBUCKLE JAW TO	EA	ORD:	50	PO :	$584.00	C
	CRFT: 11 FOR: W. HALL/SCHOLL		JAW W/JAM NUTS.		RCV:	0	RECEIVE:	$0.00	
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		INV:	0	INVOICE:	$584.00	F
PO#: 31765-01	JIGGS' FLOORS	001	INSTALL RUGS REPAIR ALL MISSING OR	LOT	ORD:	1-	PO :	$500.00-	E
	CRFT: 09 FOR: VETERE		DAMAGED TILE INCLUDING CERAMIC		RCV:	0	RECEIVE:	$0.00	F
			TILE AS PER SPEC OR AS DIRECTED.		INV:	0	INVOICE:	$0.00	F
		002	INSTALL RUGS IN CAPTAINS STATEROOM	LOT	ORD:	1	PO :	$1,219.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	~~$1,219.00~~	F
PO#: 31765-	JIGGS' FLOORS	001	INSTALL RUGS REPAIR ALL MISSING	LOT	ORD:	1	PO :	$500.00	E
	CRFT: 09 FOR: VETERE		OR DAMAGED TILE INCLUDING CERAMIC		RCV:	0	RECEIVE:	$0.00	
			TILE AS PER SPEC OR AS DIRECTED		INV:	0	INVOICE:	$0.00	P
PO#: 31776-	ALLIED SAFE & VAULT CO.	001	SERVICES OF LOCKSMITH TO REACTI-	LOT	ORD:	1	PO :	~~$73.50~~	C
	CRFT: 02 FOR: BERG		VATE 3 COMBINATION LOCK SAFES.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$73.50	F
PO#: 31826-	BOYD'S COFFEE	001	AUTO COFFEE BREWERS, 3-BURNER WITH	EA	ORD:	2	PO :	$500.00	C
	CRFT: 01 FOR: KINGREY		DECANTERS. (USED, LIKE NEW).		RCV:	0	RECEIVE:	$0.00	
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		INV:	0	INVOICE:	$500.00	F
PO#: 31833-	W. W. GRAINGER	001	MICROWAVE OVENS.	EA	ORD:	2	PO :	$1,213.38	C
	CRFT: 01 FOR: KINGREY				RCV:	0	RECEIVE:	$0.00	
			LITTON #80/08PB		INV:	0	INVOICE:	$606.69	F
		002	UPS	LOT	ORD:	1	PO :	$5.00	E
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$5.95	F
PO#: 31841-	APOLLO MARINE SERVICES	001	RUSSELL & STOLL NOW METALLIC	EA	ORD:	25	PO :	$965.00	C
	CRFT: 01 FOR: KINGREY		FIXTURES, WALL MOUNTED.		RCV:	0	RECEIVE:	$0.00	
			CAT #LVWN 10G		INV:	0	INVOICE:	$965.00	F
PO#: 31850-	UNITED RADIO SUPPLY CO.	001	ARGOS #WB 408 CSVT SPEAKER.	EA	ORD:	25	PO :	$713.25	C
	CRFT: 01 FOR: KINGREY				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$713.25	F
		002	FREIGHT.	LOT	ORD:	1	PO :	$100.00	E
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$221.00	F
PO#: 31874-	GRATING FABRICATORS, INC.	001	36" X 288" 19-W-4 GRATING	PCS	ORD:	11	PO :	$3,548.16	C
	CRFT: 11 FOR: W. HALL		GALVANIZED, 3/16" X 1-1/4" BEARING		RCV:	0	RECEIVE:	$0.00	
			BARS.		INV:	0	INVOICE:	$3,548.16	F
PO#: 31923-	RODDA PAINT COMPANY	001	RODDA OFF WHITE INTERIOR SEMI-	GAL	ORD:	2	PO :	$25.92	C
	CRFT: 09 FOR: VETERE		GLOSS ENAMEL		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$26.76	F

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	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
TEM: 9912A	CUST#: 992-11-002								
PO#: 31929-	THE MART CRFT: 20 FOR: HOWELL	001	LEGAL SIZE 5 DRAWER FILE CABINETS (IF NOT AVAILABLE 4 DRAWER) TO GO ABOARD IX-502 ITEM 9912-A	EA	ORD: RCV: INV:	10 0 0	PO : RECEIVE: INVOICE:	$1,270.00 $0.00 $1,270.00	C F
PO#: 31933-	FLUID CONNECTOR PRODUCTS CRFT: 07 FOR: BENNETT	001	6 - 6 - FBU - SS.	EA	ORD: RCV: INV:	4 0 0	PO : RECEIVE: INVOICE:	$24.80 $0.00 $24.80	C F
		002	6 - GBU - SS.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$34.00 $0.00 $34.00	C F
		003	6 - FBU - SS.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$10.56 $0.00 $10.56	C F
		004	3/8" O.D. X .035" 316 SS TUBING.	FT	ORD: RCV: INV:	60 0 0	PO : RECEIVE: INVOICE:	$99.60 $0.00 $99.60	C F
PO#: 31937-	PORTLAND VALVE & FITTING CO. CRFT: 07 FOR: BENNETT	001	3/8 O.D. SS COMPRESSION TYPE VALVES, SS-IVS-6.	EA	ORD: RCV: INV:	5 0 0	PO : RECEIVE: INVOICE:	$226.00 $0.00 $226.00	C F
PO#: 31939-	PORTLAND VALVE & FITTING CO. CRFT: 07 FOR: WILSON	001	SS 600-3. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	EA	ORD: RCV: INV:	3 0 0	PO : RECEIVE: INVOICE:	$58.65 $0.00 $58.65	C F
PO#: 31940-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	1-1/4" P-TRAPS.	EA	ORD: RCV: INV:	3 0 0	PO : RECEIVE: INVOICE:	$15.75 $0.00 $15.75	C F
		002	SHOWER HEAD (1/2" NPT) PLASTIC ADJUSTABLE.	EA	ORD: RCV: INV:	7 0 0	PO : RECEIVE: INVOICE:	$29.75 $0.00 $0.00	C F
		003	SINK VALVES (HOT & COLD) 4".	EA	ORD: RCV: INV:	4 0 0	PO : RECEIVE: INVOICE:	$111.44 $0.00 $111.44	C F
		004	SHOWER VALVE WITH SHOWERHEAD, (HOT & COLD VALVES).	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$105.00 $0.00 $105.00	C F
		005	URINAL FLUSH VALVES 1-1/4".	EA	ORD: RCV: INV:	3 0 0	PO : RECEIVE: INVOICE:	$202.50 $0.00 $202.50	C F
		006	SWING SPOUT (TWO SINK) SINK FAUCET, 8".	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$24.70 $0.00 $49.40	C F

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
TEM: 9912A	CUST#: 992-11-002								
PO#: 31940-	FAMILIAN NORTHWEST, INC.	007	WALL MOUNT SWING SPOUT FAUCET	EA	ORD:	3	PO :	$71.16	C
	CRFT: 07 FOR: LEE WILSON		CW ONLY, CHICAGO #12, (2 IN		RCV:	0	RECEIVE:	$0.00	
			STOCK, 1 BACKORDERED).		INV:	0	INVOICE:	$0.00	F
PO#: 31942-	KALBERER HOTEL SUPPLY	001	MILK DISPENSER NORLAKE MDL 1 OR	EA	ORD:	2	PO :	$1,845.00	C
	CRFT: 02 FOR: BERG		EQUAL, MD1SSC-2.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$1,845.00	F
		002	DOUBLE DISPENSER NORLAKE MDL 1 OR	EA	ORD:	1	PO :	$1,057.50	C
			EQUAL, MD2SSC-1.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$1,057.50	F
		003	AIR FREIGHT (APPROX 230#).	LOT	ORD:	1	PO :	$300.00	E
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$294.75	F
PO#: 31943-	LIBERTY EQUIPMENT & SUPPLY	001	4" IPS SERIES 2000 BONDSTRAND	EA	ORD:	2	PO :	$37.22	C
	CRFT: 07 FOR: BENNETT		COUPLINGS.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$37.22	F
		002	3 OZ. KITS.	EA	ORD:	4	PO :	$34.44	C
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$34.44	F
PO#: 31947-	PORTLAND VALVE & FITTING CO.	001	B-43S6 3/8" BRASS BALL VALVE.	EA	ORD:	9	PO :	$259.20	C
	CRFT: 07 FOR: WILSON		2 ON BACK ORDER.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$259.20	F
PO#: 31991-	EOFF ELECTRIC COMPANY	001	LIGHTING DIST. PANEL, 120 VAC,	EA	ORD:	1	PO :	$279.05	C
	CRFT: 01 FOR: KINGREY		3-PHASE.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$266.40	F
		002	2-POLE, 15 AMP, BREAKERS, QOB215.	EA	ORD:	20	PO :	$261.00	C
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$275.90	F
PO#: 31995-	APOLLO MARINE SERVICES	001	RUSSELL & STOLL #LVWN10G, FIXTURES	EA	ORD:	14	PO :	$540.40	C
	CRFT: 01 FOR: KINGREY				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$540.40	F
		002	500 WATT QUARTZ WEATHER-TIGHT	EA	ORD:	4	PO :	$159.44	C
			FIXTURE, 120 VAC, W/LAMPS STONCO		RCV:	0	RECEIVE:	$0.00	
			OR EQUAL.		INV:	0	INVOICE:	$159.44	F
		003	LAMPS.	EA	ORD:	4	PO :	$51.44	C
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$51.44	F
PO#: 32005-	INDUSTRIAL VALVE OF OREGON	003	3/8" BRASS U.E. GLOBE VALVE.	EA	ORD:	3	PO :	$201.60	C
	CRFT: 07 FOR: BENNETT				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$201.60	F

ITEM: 9912A CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32005-	INDUSTRIAL VALVE OF OREGON CRFT: 07 FOR: BENNETT	004	3/8 COPPER PIPE.	FT	ORD: RCV: INV:	12 0 0	PO : RECEIVE: INVOICE:	$45.00 $0.00 $75.00	C F
PO#: 32007-	FAMILIAN NORTHWEST, INC. CRFT: 20 FOR: HOWELL	001	WATER COOLERS - PLACE ABOARD IX-502 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$2,040.00 $0.00 $2,040.00	C F
PO#: 32008-	BYE ENGRAVING, INC. CRFT: 01 FOR: KINGREY	001	PHENOLIC NAMEPLATES AS PER INSTRUCTIONS.	EA	ORD: RCV: INV:	9 0 0	PO : RECEIVE: INVOICE:	$45.00 $0.00 $30.00	E F
PO#: 32010-	APOLLO MARINE SERVICES CRFT: 01 FOR: KINGREY	001	TTSU-1-1/2" CABLE. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	FT	ORD: RCV: INV:	300 0 0	PO : RECEIVE: INVOICE:	$120.00 $0.00 $120.00	C F
PO#: 32022-	COLUMBIA BANDING CRFT: 06 FOR: DAHLEN	001	RE-WETTABLE GLASS CLOTH.	RLL	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$364.14 $0.00 $364.14	C F
		002	3/4" THICK RUBATEX.	FT	ORD: RCV: INV:	48 0 0	PO : RECEIVE: INVOICE:	$54.72 $0.00 $54.72	C F
		003	ADHESIVE.	QT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$4.04 $0.00 $4.04	C F
		004	1" WIDE SCOTCH RAP TAPE. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DO PRIORITY	RLL	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$2.10 $0.00 $2.10	C F
PO#: 32022-02	COLUMBIA BANDING CRFT: 06 FOR:	001	1" THICK RUBATEX	SFT	ORD: RCV: INV:	500 0 0	PO : RECEIVE: INVOICE:	$705.00 $0.00 $706.41	C F
		002	PLASTIC GLOVES	PR	ORD: RCV: INV:	20 0 0	PO : RECEIVE: INVOICE:	$4.00 $0.00 $4.00	C F
		003	FIBERGLASS CLOTH #84215	SFT	ORD: RCV: INV:	300 0 0	PO : RECEIVE: INVOICE:	$93.00 $0.00 $93.00	C F
		004	MASTIC #90-07	GAL	ORD: RCV: INV:	15 0 0	PO : RECEIVE: INVOICE:	$72.60 $0.00 $14.52	C F
		005	CONTACT ADHESIVE	QT	ORD: RCV: INV:	12 0 0	PO : RECEIVE: INVOICE:	$48.48 $0.00 $48.48	C F

VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
ITEM: 9912A CUST#: 992-11-002								
PO#: 32022-02 COLUMBIA BANDING	006	1" WIDE SCOTCH WRAP TAPE	RLS	ORD:	20	PO :	$42.00	C
CRFT: 06 FOR:		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
		THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$42.00	F
PO#: 32022-01 COLUMBIA BANDING	001	1" THICK RUBATEX SHEETS	SFT	ORD:	48	PO :	$67.68	C
CRFT: 06 FOR: DAHLEN				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$5.64	F
	002	ADHESIVE	FT	ORD:	1	PO :	$4.04	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$4.04	F
	003	1" WIDE SCOTCH WRAP TAPE	RL	ORD:	1	PO :	$2.10	C
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
		THIS ORDER HAS A DO PRIORITY		INV:	0	INVOICE:	$2.10	F
PO#: 32022-03 COLUMBIA BANDING	001	MASTIC.	GAL	ORD:	15	PO :	$72.60	C
CRFT: 06 FOR: DAHLEN				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$72.60	F
	002	FIBERGLASS PIPE COVERING AS 4 X 1	L/F	ORD:	6	PO :	$8.82	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$8.82	F
	003	2025/9383 GLASS CLOTH.	S/F	ORD:	25	PO :	$11.75	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$11.75	F
	004	1" 6 LB. KNOWOOL.	S/F	ORD:	20	PO :	$16.80	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$16.80	F
	005	BERGEN HOOKS.	EA	ORD:	25	PO :	$4.50	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$4.50	F
	006	WASHERS.	EA	ORD:	25	PO :	$1.75	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$1.75	F
	007	18 GAUGE S/S WIRE.	LB	ORD:	2	PO :	$5.56	C
				RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$5.56	F
PO#: 32037- BRESSIE ELECTRIC CO.	001	SILVER KING MILK STORAGE CABINET	EA	ORD:	1	PO :	$956.00	C
CRFT: 01 FOR: KINGREY		#SK2-RRS/S2.		RCV:	0	RECEIVE:	$0.00	
				INV:	0	INVOICE:	$956.00	F
	002	AIR FREIGHT	LOT	ORD:	1	PO :	$200.00	E
		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
		THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$316.58	A

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TEM: 9912A CUST#: 992-11-002	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32041-	EOFF ELECTRIC COMPANY CRFT: 01 FOR: KINGREY	001	SQ. "D" TRANSFORMER 25KVA, 480/120-208 W/ TAPS.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$1,284.00 $0.00 $1,300.22	C P
		002	SQ. "D" POWER PANEL 3 PHASE, 480 VAC, 6 CKT, 100 AFT BREAKERS	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$756.67 $0.00 $770.27	C F
		003	#S5H25 HD TRANSFORMERS.	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$805.00 $0.00 $805.00	C P
PO#: 32043-	GENERAL MAGNETICS CRFT: 01 FOR: KINGREY	001	AQB-AB-DE-ION CIRCUIT BREAKERS, 225AFR, 250 VDC, 2 OR 3 POLE WITH 200 A TRIP.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$650.00 $0.00 $650.00	C F
		002	AQB-AB-DE CIRCUIT BREAKER, 100 A- FRAME, 250 VDC, 2 OR 3 POLE, WITH 20 A TRIP.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$370.00 $0.00 $370.00	C F
		003	AQB-AB-DE CIRCUIT BREAKER, 100 A- FRAME, 250 VDC, 2 OR 3 POLE, WITH 60 A TRIP.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$370.00 $0.00 $370.00	C F
		004	AQB-AB-DE CIRCUIT BREAKER, 100 A- FRAME, 250 VDC, 2 OR 3 POLE, WITH 70 A TRIP.	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$185.00 $0.00 $185.00	C F
		005	AIR FREIGHT.	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$100.00 $0.00 $190.51	E F
PO#: 32069-	IN-MAR SALES, INC. CRFT: 09 FOR: VETERE	001	DEVOE HAZE GRAY TT490.	GAL	ORD: RCV: INV:	10 0 0	PO : RECEIVE: INVOICE:	$224.50 $0.00 $224.50	C F
PO#: 32073-	ALASKAN COPPER & BRASS CRFT: 02 FOR: BERG	001	60 C 120 X .050 SS #2B 202#	LB	ORD: RCV: INV:	202 0 0	PO : RECEIVE: INVOICE:	$266.64 $0.00 $266.64	C F
PO#: 32078-	WAJAX PACIFIC FIRE EQUIPMENT CRFT: 07 FOR: LEE WILSON	001	PLASTIC HOSE NOZZLES 1-1/2" NPT.	EA	ORD: RCV: INV:	45 0 0	PO : RECEIVE: INVOICE:	$578.25 $0.00 $578.25	C F
		002	PLASTIC HOSE NOZZLES 1-1/2" STAN- DARD HOSE THD. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD: RCV: INV:	16 0 0	PO : RECEIVE: INVOICE:	$205.60 $0.00 $205.60	C F
PO#: 32080-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	1-1/2" P-TRAPS 17 GA.	EA	ORD: RCV: INV:	3 0 0	PO : RECEIVE: INVOICE:	$19.50 $0.00 $19.50	C F

TEM: 9912A CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32080-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	002	1/2" NPT PLASTIC SHOWER HEADS	EA	ORD:	7	PO :	$29.75	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$29.75	F
		003	3/8" X 12" SUPPLY TUBES. (FROM SUPPLY TO SINK) BRASS.	EA	ORD:	10	PO :	$11.50	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$11.50	F
		004	SINK FAUCETS (4" CTRS.).	EA	ORD:	13	PO :	$362.18	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$362.18	F
		005	SWING SPOUTS FOR JUICE MACHINES, SA-2 ADAPTER.	EA	ORD:	5	PO :	$48.50	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$50.45	F
		006	CHICAGO L-12 SPOUTS.	EA	ORD:	5	PO :	$101.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$101.00	F
		007	CHICAGO 919-S PREMISE ASSEMBLY.	EA	ORD:	1	PO :	$129.40	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$129.40	F
PO#: 32084-	GRAND METAL PRODUCTS CORP. CRFT: 02 FOR: BERG	001	MJ DOORS - IN STOCK, W/HARDWARE.	EA	ORD:	8	PO :	$4,400.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$4,400.00	F
		002	MJ DOORS - CUSTOM, W/HARDWARE.	EA	ORD:	2	PO :	$1,250.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$1,250.00	F
		003	MJ DOOR & FRAME - IN STOCK, W/ HARDWARE.	EA	ORD:	1	PO :	$690.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$690.00	F
		004	LOCKSETS.	EA	ORD:	8	PO :	$768.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$768.00	F
PO#: 32090-	PORTLAND VALVE & FITTING CO. CRFT: 07 FOR: LEE WILSON	001	BRASS SWAGELOK 1/4" IPS FEMALE X 3/8" TUBE, B-600-7-4.	EA	ORD:	12	PO :	$30.60	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$30.60	T
		002	BRASS SWAGELOK 3/8" IPS MALE X 3/8" TUBE, B-600-1-4. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD:	12	PO :	$22.80	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$22.80	F
PO#: 32094-	ARGO MARINE SUPPLY CRFT: 01 FOR: KINGREY	001	SIGMAFORM END SEAL #SSC-100L.	EA	ORD:	100	PO :	$469.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$449.00	F

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TEM: 9912A CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32094-	ARGO MARINE SUPPLY CRFT: 01 FOR: KINGREY	002	SIGMAFORM END SEAL #SSC-150.	EA	ORD: RCV: INV:	100 0 0	PO : RECEIVE: INVOICE:	$277.00 $0.00 $277.00	C F
		003	AIR FREIGHT.	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$50.00 $0.00 $38.20	C F
PO#: 32098-	BRESSIE ELECTRIC CO. CRFT: 02 FOR: BERG/STEVENS	001	TWIN FRY BASKET, HOBART #350869-01	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$288.00 $0.00 $288.00	C F
		002	TWIN FRY BASKET, HOBART #350810-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$69.00 $0.00 $69.00	C F
PO#: 32104-	ALASKAN COPPER & BRASS CRFT: 01 FOR: KINGREY	001	1/4" X 20 BRASS ALL THREAD.	FT	ORD: RCV: INV:	12 0 0	PO : RECEIVE: INVOICE:	$9.00 $0.00 $9.00	C F
		002	1/2" X 13 BRASS ALL THREAD. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	FT	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$19.62 $0.00 $19.62	C F
PO#: 32133-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	DRINKING FOUNTAINS (SAME AS 6 RECD BEFORE). NSF-8 SUNROC.	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$680.00 $0.00 $680.00	C F
		002	ELKAY WATER COOLERS, MODEL NO. EFA-8G-3, GRAY.	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$340.00 $0.00 $340.00	C F
		003	1-1/4" BRASS P-TRAPS.	EA	ORD: RCV: INV:	8 0 0	PO : RECEIVE: INVOICE:	$42.00 $0.00 $42.00	C F
PO#: 32137-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	SWING SPOUT AND FAUCET SET CHICAGO 4450J18.	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$93.48 $0.00 $93.48	C F
		002	1-1/4" BRASS P-TRAPS 17 GA.	EA	ORD: RCV: INV:	8 0 0	PO : RECEIVE: INVOICE:	$38.00 $0.00 $0.00	C F
		003	1-1/2 X 1-1/4 SLIP JOINT NUTS. FOR 1/RBM & 1X502.	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$9.36 $0.00 $6.36	C F
PO#: 32139-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	1-1/2" P-TRAPS, 17 GA.	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$36.24 $0.00 $36.24	C F

ITEM: 9912A CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32139-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	002	1-1/4" IPS X 1-1/4" TUBE NUTS AND GASKETS (SLIP JT. NUTS)	EA	ORD: RCV: INV:	10 0 0	PO : RECEIVE: INVOICE:	$1.90 $0.00 $1.90	C F
		003	1-1/2" IPS X 1-1/2" TUBE NUTS & GASKETS (SLIP JT. NUTS).	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$1.44 $0.00 $1.44	C F
		004	3/8" BRASS TUBES, (WATER SERVICE TO SINKS) SUPPLY TUBES 15" LNG. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD: RCV: INV:	12 0 0	PO : RECEIVE: INVOICE:	$19.80 $0.00 $19.80	C F
PO#: 32142-	PETERS OFFICE SUPPLY CRFT: 02 FOR: GEO - MICHEL	001	LOG DESK, REPUBLIC 620 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$159.00 $0.00 $159.00	C F
PO#: 32145-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	CHICAGO FAUCETS 919S 80 CP OLD STYLE.	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$130.00 $0.00 $130.00	C F
PO#: 32148-	FAMILIAN NORTHWEST, INC. CRFT: 07 FOR: LEE WILSON	001	WATER COOLERS/PER CONDITION REPORT NO. 26.	EA	ORD: RCV: INV:	4 0 0	PO : RECEIVE: INVOICE:	$1,364.00 $0.00 $1,364.00	C F
PO#: 32159-	ELECTRICAL CONSTRUCTION CO. CRFT: 01 FOR: KINGREY	001	GARBAGE GRINDER MOTOR.	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$200.00 $0.00 $580.00	E F
PO#: 32168-	APOLLO MARINE SERVICES CRFT: 01 FOR: KINGREY	001	BATTLE LANTERN BULBS GE #4546-1. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER HAS A DEFENSE PRIORITY	EA	ORD: RCV: INV:	10 0 0	PO : RECEIVE: INVOICE:	$59.20 $0.00 $71.04	C F
PO#: 32171-	IN-MAR SALES, INC. CRFT: 09 FOR: VETERE	001	DEVOE FORM #30 WHITE	GAL	ORD: RCV: INV:	15 0 0	PO : RECEIVE: INVOICE:	$274.50 $0.00 $274.50	C F
PO#: 32177-	THE MART CRFT: 20 FOR: HOWELL/EVANS	001	4 DRAWER LEGAL FILES	EA	ORD: RCV: INV:	33 0 0	PO : RECEIVE: INVOICE:	$4,191.00 $0.00 $4,191.00	C F
PO#: 32178-	PETERS OFFICE SUPPLY CRFT: 20 FOR: HOWELL/EVANS	001	SINGLE PEDESTAL 30 X 48 DESKS (METAL)	EA	ORD: RCV: INV:	8 0 0	PO : RECEIVE: INVOICE:	$1,592.00 $0.00 $1,592.00	C F
		002	STANDARD DOUBLE PEDESTAL 30 X 60 DESKS (METAL)	EA	ORD: RCV: INV:	10 0 0	PO : RECEIVE: INVOICE:	$2,800.00 $0.00 $2,800.00	C F
		003	EXECUTIVE DESKS 36 X 72	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$598.00 $0.00 $598.00	C F

ITEM: 9912A CUST#: 992-11-002	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32178-	PETERS OFFICE SUPPLY CRFT: 20 FOR: HOWELL/EVANS	004	JR. EXECUTIVE SWIVELS	EA	ORD: RCV: INV:	39 0 0	PO : RECEIVE: INVOICE:	$4,485.00 $0.00 $4,485.00	C F
		005	SIDE CHAIRS (VINYL STACKERS)	EA	ORD: RCV: INV:	20 0 0	PO : RECEIVE: INVOICE:	$600.00 $0.00 $600.00	C F
		006	48"H X 36" W X 12 D BOOKCASES ADJUSTABLES SHELVES	EA	ORD: RCV: INV:	14 0 0	PO : RECEIVE: INVOICE:	$1,722.00 $0.00 $1,722.00	C F
		007	EXECUTIVE UPHOLSTERED SWIVELS	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$420.00 $0.00 $420.00	C F
		008	LOCKING LATERAL FILES 2 HIGH WITH LOCKS	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$375.00 $0.00 $375.00	C F
		009	DELIVERY CHARGE	LOT	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$234.00 $0.00 $234.00	E F
PO#: 32188-	RODDA PAINT COMPANY CRFT: 09 FOR: VETERE	001	PRO LINE COLORANT MED YELLOW 16 OZ	EA	ORD: RCV: INV:	4 0 0	PO : RECEIVE: INVOICE:	$27.00 $0.00 $26.99	C F
		002	PRO LINE COLORANT LIGHT YELLOW 16 OZ	EA	ORD: RCV: INV:	2 0 0	PO : RECEIVE: INVOICE:	$23.66 $0.00 $23.66	C F
		003	PRO LINE COLORANT THALLO BLUE 16 OZ	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$5.75 $0.00 $5.75	C F
		004	PRO LINE COLORANT RAW SIENNA 16 OZ	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$25.98 $0.00 $26.00	C F
		005	PRO LINE COLORANT BURNT UMBER 16 OZ	EA	ORD: RCV: INV:	4 0 0	PO : RECEIVE: INVOICE:	$16.64 $0.00 $16.66	C F
PO#: 32211-	EOFF ELECTRIC COMPANY CRFT: 01 FOR: KINGREY	001	SQUARE "D" BREAKER, 50 AMP, 3 POLE #FA 32050. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	EA	ORD: RCV: INV:	1 0 0	PO : RECEIVE: INVOICE:	$82.35 $0.00 $101.45	C F
PO#: 32212-	HARDWARE SPECIALTY CO. CRFT: 01 FOR: KINGREY	001	2 PD THERMOSTATS, SYM 2806.1.	EA	ORD: RCV: INV:	6 0 0	PO : RECEIVE: INVOICE:	$381.00 $0.00 $0.01	C A

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ITEM: 9912A CUST#: 992-11-002

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
PO#: 32212-	HARDWARE SPECIALTY CO.	002	FREIGHT.	LOT	ORD:	1	PO :	$10.00	E
	CRFT: 01 FOR: KINGREY				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$0.00	F
PO#: 32216-	AMSCO REFRIGERATION, INC.	001	TO COVER REPAIRS TO REFRIGERATION	LOT	ORD:	1	PO :	$9,000.00	E
	CRFT: 20 FOR: HOWELL		EQUIP., NOT TO EXCEED $9000.00		RCV:	0	RECEIVE:	$0.00	
			AS PER SURVEY.		INV:	0	INVOICE:	$10,383.82	F
PO#: 32218-	JIGGS' FLOORS	001	TO COVER DECK REPAIRS, NOT TO	LOT	ORD:	1	PO :	$6,750.00	E
	CRFT: 20 FOR: HOWELL		EXCEED $6750.00 AS PER SURVEY.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$6,051.00	F
PO#: 32230-	BRESSIE ELECTRIC CO.	001	TOASTMASTER OR EQUAL, TOASTER MOD.	EA	ORD:	1	PO :	$460.00	C
	CRFT: 01 FOR: KINGREY		1DZ-Z. 120 VAC		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$460.00	F
		002	AIR FREIGHT.	LOT	ORD:	1	PO :	$100.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$35.00	F
PO#: 32262-	IN-MAR SALES, INC.	001	DEVOE WHITE ENAMEL FORM 30	GAL	ORD:	10	PO :	$183.00	C
	CRFT: 09 FOR: VETERE				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$183.00	F
PO#: 32280-	JIGGS' FLOORS	001	RETILE ENTIRE AREA OF MN GALLEY	LOT	ORD:	1	PO :	$3,074.00	C
	CRFT: 20 FOR: HOWELL		SERVING LINE PASSAGE.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$2,919.00	F
PO#: 32290-	HARDWARE SPECIALTY CO.	001	TEMPERATURE SWITCH, DETROIT	EA	ORD:	2	PO :	$220.00	C
	CRFT: 01 FOR: KINGREY		CONTROLS, 2221010, 0-60 DEGREES,		RCV:	0	RECEIVE:	$0.00	
			NL, HIGH.		INV:	0	INVOICE:	$220.00	F
		002	BUS.	LOT	ORD:	1	PO :	$10.00	E
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$0.00	F
PO#: 32324-	JIGGS' FLOORS	001	RETILE PARTIAL AREA OF MAIN	LOT	ORD:	1	PO :	$3,789.00	C
	CRFT: 20 FOR: HOWELL		LAUNDRY ON BERTHING BARGE.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$1,802.00	F
		002	INSTALL TILE AS DIRECTED IN CREW'S	LOT	ORD:	1	PO :	$8,109.00	C
			RECREATION ROOM ON BERTHING BARGE.		RCV:	0	RECEIVE:	$0.00	
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		INV:	0	INVOICE:	$8,109.00	F
PO#: 32333-	STEAM SUPPLY & RUBBER COMPANY	001	STEAM SOLENOID VALVES IPS THERMO-	EA	ORD:	6	PO :	$489.60	C
	CRFT: 07 FOR: LEE WILSON		STATIC CONTROLLED, 1/2" UNION ENDS		RCV:	0	RECEIVE:	$0.00	
			S.B. 3/8" ORIFICE, 115 VOLTS,		INV:	0	INVOICE:	$489.60	F
		002	0/200 BOTTOM CONV. 2-1/2" DIAL	EA	ORD:	2	PO :	$16.46	C
			1/4 MPT, ASHCROFT 1000.		RCV:	0	RECEIVE:	$0.00	
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		INV:	0	INVOICE:	$16.46	P

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
TEM: 9912A	CUST#: 992-11-002								
PO#: 32334-	WALKER & MOORE PUMP CO., INC.	001	HOT WATER CIRCULATING PUMP, AMTROL	EA	ORD:	2	PO :	$782.00	C
	CRFT: 07 FOR: LEE WILSON		BH.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$782.00	F
		002	SPARE SEAL BIT FOR ABOVE.	EA	ORD:	1	PO :	$55.00	C
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$110.00	F
PO#: 32382-	UNIVERSAL PLASTICS	001	3/8" X 4' X 8' CLEAR PLEXIGLASS GM	SHT	ORD:	4	PO :	$655.36	C
	CRFT: 06 FOR: DAHLEN/GD		@ $5.12/SQ. FT.		RCV:	0	RECEIVE:	$0.00	
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		INV:	0	INVOICE:	$655.36	F
PO#: 32393-	APOLLO MARINE SERVICES	001	(12 PER CASE) EVEREADY 509	CSE	ORD:	18	PO :	$604.80	C
	CRFT: 01 FOR: KINGREY		BATTERIES.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$604.80	F
PO#: 32402-	IN-MAR SALES, INC.	001	DEVOE WHITE ENAMEL	GAL	ORD:	20	PO :	$450.00	C
	CRFT: 09 FOR: VETERE				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$450.00	F
PO#: 32432-	BYE ENGRAVING, INC.	001	PHENOLIC NAMEPLATES AS PER	EA	ORD:	27	PO :	$135.00	E
	CRFT: 01 FOR: KINGREY		INSTRUCTIONS.		RCV:	27	RECEIVE:	$135.00	F
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		INV:	1	INVOICE:	$135.00	F
PO#: 32433-	POSTS INC.	001	2 PD THERMOSTAT.	EA	ORD:	6	PO :	$644.70	C
	CRFT: 01 FOR: KINGREY				RCV:	6	RECEIVE:	$644.70	F
					INV:	1	INVOICE:	$644.70	F
		002	AIR FREIGHT.	LOT	ORD:	1	PO :	$50.00	E
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	2	RECEIVE:	$100.00	F
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	2	INVOICE:	$49.30	A
PO#: 32473-	IN-MAR SALES, INC.	001	DEVOE TT489 WHITE ENAMEL	GAL	ORD:	15	PO :	$336.75	C
	CRFT: 09 FOR: VETERE				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$337.50	F
PO#: 32543-	W & O SUPPLY, INC.	001	1/2" OD HARD DRAWN TUBING.	FT	ORD:	40	PO :	$31.20	C
	CRFT: 07 FOR: MERLIN				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$31.20	F
		002	3/4" CU-NI PIPE.	FT	ORD:	40	PO :	$96.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$96.00	F
		003	1/2" CU-NI PIPE.	FT	ORD:	10	PO :	$19.50	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$19.50	F
		004	3" COPPER PIPE.	FT	ORD:	5	PO :	$65.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$65.00	F

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
ITEM: 9912A	CUST#: 992-11-002								
PO#: 32543-	W & O SUPPLY, INC.	005	1-1/4" COPPER PIPE.	FT	ORD:	5	PO :	$16.90	C
	CRFT: 07 FOR: MERLIN		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$16.90	F
PO#: 32550-	EOFF ELECTRIC COMPANY	001	BUSS FUSES TRON KAB 400.	EA	ORD:	4	PO :	$67.88	C
	CRFT: 01 FOR: KINGREY				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$67.88	F
PO#: 32554-	TRIM-TEX	001	ALUMINUM CHANNEL #1285.	FT	ORD:	120	PO :	$42.00	C
	CRFT: 02 FOR: BERG				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$42.00	F
PO#: 32613-	HARDWARE SPECIALTY CO.	001	LANTERN SUB ASSEMBLY,	EA	ORD:	6	PO :	$297.00	C
	CRFT: 01 FOR: KINGREY		FSN 9G-6230-00-783-6251		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$297.00	F
PO#: 32691-	CROSBY & OVERTON, INC.	001	SEWAGE REMOVAL	LOT	ORD:	1	PO :	$500.00	E
	CRFT: 07 FOR: WILSON		2 HR. S.T.		RCV:	0	RECEIVE:	$0.00	
			1 HR. D.T		INV:	0	INVOICE:	$0.00	
		002	SEWAGE REMOVAL, 8 HR. S.T.	LOT	ORD:	1	PO :	$500.00	E
					RCV:	0	RECEIVE:	$0.00	
			PER WORK ORDER 10/7 & 10/8/85.		INV:	0	INVOICE:	$0.00	
PO#: 32790-	HARDWARE SPECIALTY CO.	001	VANEAXIAL FAN A10 NAVY 7-1/2 HP	EA	ORD:	1	PO :	$2,700.00	C
	CRFT: 01 FOR: HORN/KINGREY		1750/1150 RPM, 450 VAC, 3 PHASE,		RCV:	0	RECEIVE:	$0.00	
			2 SPEED. W/MOTOR CONTROLLER AND		INV:	0	INVOICE:	$3,200.00	F
		002	DELIVERY CHARGE	LOT	ORD:	1	PO :	$200.00	C
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$200.00	F
PO#: 32845-	APOLLO MARINE SERVICES	024	MICROWAVE OVEN LITTON #80/08 PB	EA	ORD:	1	PO :	$644.00	C
	CRFT: 01 FOR: MCCLELLAND		OR EQUAL		RCV:	1	RECEIVE:	$644.00	F
					INV:	1	INVOICE:	$644.00	P
PO#: 32931-	BRESSIE ELECTRIC CO.	001	G.E. THERMOSTAT MOD. MK 41A	EA	ORD:	1	PO :	$50.38	C
	CRFT: 01 FOR: KINGREY		FACTORY # MK41A105963G500 SER#		RCV:	0	RECEIVE:	$0.00	
			SC87068 220/240 VOLT DC 18KW		INV:	0	INVOICE:	$50.38	F
PO#: 32933-	NORTH COAST ELECTRIC COMPANY	001	BUSS FUSES TRON KAB-400	EA	ORD:	8	PO :	$216.00	C
	CRFT: 01 FOR: KINGREY				RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$216.00	F
PO#: 32941-	JIGGS' FLOORS	001	FURNISH LABOR & MATERIAL TO PRE-	LOT	ORD:	1	PO :	$500.00	E
	CRFT: 20 FOR: HOWELL		PARE DECK AND INSTALL NEW TILE		RCV:	0	RECEIVE:	$0.00	
			IN CREW LOUNGE.		INV:	0	INVOICE:	$0.00	
PO#: 33078-	AMSCO REFRIGERATION, INC.	001	FURNISH AND INSTALL NEW SHAFT SEAL	LOT	ORD:	1	PO :	$400.00	E
	CRFT: 20 FOR: HOWELL		IN SHIP'S SERVICE REEFER MACHINE.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$0.00	

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
ITEM: 9912A	CUST#: 992-11-002								
PO#: 33111-	APOLLO MARINE SERVICES	007	BRYANT SWITCH #5862	EA	ORD:	12	PO :	$194.40	C
	CRFT: 01 FOR: DIELSCHNEIDER		XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	12	RECEIVE:	$194.40	F
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	1	INVOICE:	$194.40	F
PO#: 33255-	ARENT MACHINERY CO.	001	FURNISH SERVICEMAN TO DETERMINE	LOT	ORD:	1	PO :	$748.38	C
	CRFT: 07 FOR: HOWELL		CAUSE OF MALFUNCTION AND CORRECT		RCV:	0	RECEIVE:	$0.00	
			SAME ON DISHWASHER ON MESS DECKS.		INV:	0	INVOICE:	$748.38	F

ITEM 9912A	TOTAL	PO :	$100,331.21	E
		RECEIVE:	$1,718.10	
		INVOICE:	$96,973.30	
		RTV :	$0.00	E
		CREDIT :	$0.00	

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	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
ITEM: 9912D	CUST#: 992-11-002								
PO#: 33469-	METRO SATELLITE SYSTEMS	001	PROVIDE A COMPLETE 24 CHANNEL DUAL	LOT	ORD:	1	PO :	$15,697.00	C
	CRFT: 01 FOR: KINGREY		POLARITY & 5 OFF AIR CHANNEL		RCV:	0	RECEIVE:	$0.00	
			SATELLITE T.V. SYSTEM FOR 32 RE-		INV:	0	INVOICE:	$15,697.00	F
PO#: 33795-	EXECUTONE OF OREGON	001	PROVIDE A ENCORE 2464 TELEPHONE	LOT	ORD:	1	PO :	$14,189.00	C
	CRFT: 01 FOR: KINGREY		SYSTEM, COMPLETE WITH MAIN FRAME		RCV:	0	RECEIVE:	$0.00	
			ALL CABLING AND DISTRIBUTION		INV:	0	INVOICE:	$14,286.80	A
PO#: 33841-	GRAND METAL PRODUCTS CORP.	001	METAL JOINER DOOR STEEL CUT -	EA	ORD:	1	PO :	$695.00	C
	CRFT: 02 FOR: GEO MICHEL		28-3/4 X 71-1/2 LH WITH LOCK -		RCV:	1	RECEIVE:	$695.00	F
			NO SILL.		INV:	1	INVOICE:	$695.00	F

ITEM 9912D TOTAL	PO :	$30,581.00	C
	RECEIVE:	$695.00	
	INVOICE:	$30,678.80	F
	RTV :	$0.00	E
	CREDIT :	$0.00	

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	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
TEM: 9912F	CUST#: 992-11-002								
PO#: 33541-	AMSCO REFRIGERATION, INC. CRFT: 14 FOR: NEWELL	001	SERVICE CALL ON NO. 1 REEFER COMPRESSOR-IX-502 11/8/85	LOT	ORD:	1	PO :	$256.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$256.00	F
		002	TEAR DOWN-INSPECT-REPORT ON NO. 1 REEFER COMPRESSOR	LOT	ORD:	1	PO :	$376.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$376.00	F
		~~003~~	~~LABOR & MATERIAL TO OVERHAUL NO. 1 REEFER COMPRESSOR~~ XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	~~LOT~~	~~ORD:~~	~~1~~	~~PO :~~	~~$6,600.00~~	~~C~~
					~~RCV:~~	~~0~~	~~RECEIVE:~~	~~$0.00~~	
					~~INV:~~	~~0~~	~~INVOICE:~~	~~$0.00~~	~~F~~
PO#: 33541-01	AMSCO REFRIGERATION, INC. CRFT: 14 FOR: HUGET	~~001~~	~~LABOR & MATERIAL TO OVERHAUL NO. 1 REEFER COMPRESSOR~~	~~LOT~~	~~ORD:~~	~~1~~	~~PO :~~	~~$6,600.00~~	~~C~~
					~~RCV:~~	~~0~~	~~RECEIVE:~~	~~$0.00~~	~~F~~
					~~INV:~~	~~0~~	~~INVOICE:~~	~~$0.00~~	~~F~~
PO#: 34591-	ARENT MACHINERY CO. CRFT: 07 FOR: LEE WILSON	001	REPAIR LEAKING STEAM LINE AT HEADER FOR INDUSTRIAL CLOTHES DRIER.	LOT	ORD:	1	PO :	$300.00	E
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$281.00	F
PO#: 34742-	ELECTRICAL CONSTRUCTION CO. CRFT: 01 FOR: KINGREY	001	240 VDC VENT FAN, SYSTEM. 1-11-1.	EA	ORD:	1	PO :	$550.00	E
					RCV:	1	RECEIVE:	$550.00	F
			- REPAIR -		INV:	1	INVOICE:	$810.00	T
PO#: 37129-	PARAMOUNT SUPPLY CO. CRFT: 07 FOR: LEE WILSON	001	25T2 1-1/2" TEMP. REG. VLV SARCO (STEAM)	EA	ORD:	1	PO :	$690.00	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$690.00	F
PO#: 37210-	ALLIED SAFE & VAULT CO. CRFT: 07 FOR: LEE WILSON	001	REPAIR COMBINATION SAFE - LOCK BAR HANGS UP AND DOOR WILL NOT OPEN	LOT	ORD:	1	PO :	$75.00	E
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$120.00	A
PO#: 37411-	ARENT MACHINERY CO. CRFT: 07 FOR: LEE WILSON	001	REPAIR COMMERCIAL WASHING MACH. WILL NOT GO INTO WASH CYCLE	LOT	ORD:	1	PO :	$528.94	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$528.94	F
PO#: 37517-	CONSOLIDATED SUPPLY CRFT: 07 FOR: LEE WILSON	001	TOILET SEAT ASSY, WHITE	EA	ORD:	1	PO :	$12.30	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$12.30	F
		002	W.C. LESS TANK, WHITE AM STD 2221-.018	EA	ORD:	1	PO :	$111.20	C
					RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$111.20	F
PO#: 38406-	BEARINGS, INC. CRFT: 07 FOR: LEE WILSON	001	DAYCO SYNCHRO COG TIMING BELTS #420H100 (385)	EA	ORD:	2	PO :	$30.28	C
					RCV:	2	RECEIVE:	$30.28	F
					INV:	2	INVOICE:	$31.52	F
PO#: 38472-	AMSCO REFRIGERATION, INC. CRFT: 07 FOR: LEE WILSON	001	REPAIR PORT & STB ICE MAKERS (DON SHERIDAN), 16 MARCH 86	LOT	ORD:	1	PO :	$641.35	E
					RCV:	0	RECEIVE:	$0.00	F
					INV:	1	INVOICE:	$641.35	T

	VENDOR / CRAFT	ENT#	DESCRIPTION	U/M		QTY		AMOUNT	STAT
TEM: 9912F	CUST#: 992-11-002								
PO#: 39094-	AMSCO REFRIGERATION, INC.	001	REPAIR FREEZE BOX IN GALLEY	LOT	ORD:	1	PO :	$100.00	E
	CRFT: 07 FOR: LEE WILSON		REPLACE NEW FAN BLADE AND GUARD.		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$232.15	F
PO#: 39340-	ALLIED SAFE & VAULT CO.	001	MASTER PADLOCKS KEYED THE SAME	EA	ORD:	12	PO :	$59.64	E
	CRFT: 07 FOR: LEE WILSON		NO. 1 MASTER $7.10 LESS 30%		RCV:	0	RECEIVE:	$0.00	
					INV:	0	INVOICE:	$59.64	F
PO#: 39369-	EXECUTONE OF OREGON	001	EXECUTONE TELEPHONES, 6 BUTTON	EA	ORD:	4	PO :	$632.00	C
	CRFT: 01 FOR: KINGREY		SETS, #2512501		RCV:	4	RECEIVE:	$632.00	F
					INV:	1	INVOICE:	$569.00	F
PO#: 39516-	ARENT MACHINERY CO.	001	INVOICE #SE60183	LOT	ORD:	1	PO :	$269.00	C
	CRFT: 07 FOR: LEE WILSON				RCV:	0	RECEIVE:	$0.00	F
					INV:	1	INVOICE:	$269.00	T
		002	INVOICE #SE60231	LOT	ORD:	1	PO :	$1,082.30	C
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	0	RECEIVE:	$0.00	F
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	1	INVOICE:	$1,082.30	T
PO#: 39547-	NORVAC SERVICES, INC.	001	SERVICES (LABOR & MATERIAL &	LOT	ORD:	1	PO :	$1,475.00	C
	CRFT: 24 FOR: HUGET		DISPOSAL) TO PUMP, CLEAN, AND		RCV:	0	RECEIVE:	$0.00	
			DISINFECT SEWAGE HOLDING TANK		INV:	0	INVOICE:	$0.00	
PO#: 40635-	JOHN CRANE HOUDAILLE INC	001	MECHANICAL SEAL FOR BARNES CHT	EA	ORD:	1	PO :	$738.50	C
	CRFT: 14 FOR: H. MILLER		PUMP P/N CFSP-41585		RCV:	1	RECEIVE:	$738.50	F
					INV:	0	INVOICE:	$0.00	
		002	AIR FREIGHT FOR MON., 05/19 DEL.	LOT	ORD:	1	PO :	$25.00	E
			XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		RCV:	1	RECEIVE:	$25.00	F
			THIS ORDER HAS A DEFENSE PRIORITY		INV:	0	INVOICE:	$0.00	

ITEM 9912F TOTAL	PO :	$7,952.51	E
	RECEIVE:	$1,975.78	
	INVOICE:	$6,070.40	
	RTV :	$0.00	E
	CREDIT :	$0.00	

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JOB# 7500 NAME: U.S.S. DULUTH PAGE 505

ITEM: 0000 - 9999 WHSE: 00 - 99

WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21277-13	10/18/85	230.00	LB	2810-0120	WIRE	11 GA BLACK ANNEALED	98.90	0.00
							ITEM 9901 TOTAL	98.90	0.00
15	21400-06	11/01/85	1.00	EA	1820-0100	REDUCER, BELL, STD BRASS	3/4" X 1/2"	0.96	0.00
							ITEM 9903 TOTAL	0.96	0.00
01	12325-04	12/18/85	250.00	FT	2820-0160	WIRE, ELECTRICAL	12/4 TYPE S.O. TYREX	152.50	0.00
01	13040-04	02/25/86	200.00	FT	2820-0130	WIRE, ELECTRICAL	14/3 TYPE S.O. TYREX	68.00	0.00
02	11923-01	10/18/85	6.00	SQFT	2030-0010	SCREEN, STAINLESS	#2 MESH 14 GA. 4' X 100'	100.68	0.00
02	11925-16	10/18/85	0.50	EA	2220-0060	SHEET METAL, GALV.	22 GA. X 48" X 120"	9.52	0.00
07	11824-06	10/03/85	1.00	LB	0720-0100	ELECTRODE, WELDING, STEEL	3/32" #7018, AIRCO	0.84	0.00
11	12756-05	02/04/86	2.77	CWT	2440-0060	PLATE, MILD STEEL	1/2"	18.23	0.00
11	12757-10	02/04/86	1.87	CWT	2440-0040	PLATE, MILD STEEL	3/8"	47.24	0.00
15	21040-16	09/20/85	3.00	PR	1250-0070	HASPS, HINGES &BOLTS	8" STRAP HINGE #SC922-ZN	22.74	0.00
15	21064-16	09/24/85	2.00	EA	0020-0035	ADHESIVES	BARGE CEMENT 8 OZ	2.10	0.00
15	21208-06	10/14/85	40.00	LFT	2650-0010	TUBING, POLYETHYLENE	6 MIL X 25" LAY FLAT	7.60	0.00
15	21518-07	11/15/85	2.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	2.86	0.00
15	21518-08	11/15/85	1.00	EA	2490-0070	TAPE	MASKING, 3/4" #CP-83	0.44	0.00
15	21776-05	12/09/85	48.00	EA	1320-0060	LAMPS, INCANDESCENT	500 WATT MOG BASE #500RS	180.00	0.00
15	22283-16	01/28/86	63.00	FT	1650-0120	PIPE, SCH-40, BLK, PE	4"	374.22	0.00
15	22293-03	01/29/86	105.00	FT	1650-0120	PIPE, SCH-40, BLK, PE	4"	583.80	0.00
15	22311-09	01/29/86	100.00	LFT	1690-0010	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	27.00	0.00
15	22328-08	01/30/86	63.00-	FT	1650-0120	PIPE, SCH-40, BLK, PE	4"	350.28-	0.00
15	22727-03	02/28/86	100.00	LFT	1690-0010	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	23.00	0.00
15	23599-01	04/21/86	1.00	EA	1250-0020	HASPS, HINGES &BOLTS	3 1/2"SFTY HASP#SC929-ZN	1.24	0.00
17	13096-02	03/07/86	31.00	FT	1910-0020	ROPE, MANILA	5/8"	4.96	0.00
17	13096-03	03/07/86	2.00	EA	2090-0050	SHACKLE, ANCH, SCRW PIN, GAL	1/2"	4.40	0.00
							ITEM 9911 TOTAL	1,281.09	0.00
01	11708-08	09/18/85	30.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	49.50	0.00
01	11708-10	09/18/85	1.00	EA	1380-0090	MARKER, WIRE	DISPENSER, SCOTCH CODE#STD	1.27	0.00
01	11708-11	09/18/85	1.00	EA	1380-0080	MARKER, WIRE	SCOTCH CODE, 3M, ROLL	0.75	0.00
01	11708-12	09/18/85	48.00	EA	1320-0030	LAMPS, INCANDESCENT	100 WATT MED BASE #100ARS	55.20	0.00
01	11708-13	09/18/85	10.00	EA	1220-0160	HANGER, NELSON	101-107-283	6.10	0.00
01	11708-16	09/18/85	85.00	FT	0170-0070	CABLE, ELECTRIC	TSGA 4	56.95	0.00
01	11724-01	09/20/85	50.00	EA	0960-0010	GASKET ASSY	1/2" T&B #5262	20.00	0.00
01	11724-02	09/20/85	50.00	EA	0400-0040	COUPLING, PIPE, STD GALV	1/2"	36.50	0.00
01	11724-02	09/25/85	49.00-	EA	0400-0040	COUPLING, PIPE, STD GALV	1/2"	35.77-	0.00
01	11724-04	09/20/85	30.00	EA	1220-0020	HANGER, NELSON	SLO-103	13.20	0.00
01	11724-05	09/20/85	1.00	EA	0450-0200	DEVICE, WIRING	BRYANT SWITCH #5862	12.02	0.00
01	11724-06	09/20/85	1.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	0.83	0.00
01	11724-07	09/20/85	1.00	EA	0080-0070	BOX, HANDY	2"X4"SW. CVR RACO #865	0.22	0.00
01	11724-09	09/20/85	5.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	1.90	0.00
01	11724-10	09/20/85	2.00	EA	0930-0160	FUSE, STANDARD, NON	150 AMP , 250V	13.10	0.00
01	11724-11	09/20/85	2.00	EA	0930-0130	FUSE, STANDARD, NON	60 AMP , 250V	1.06	0.00

JOB# 7500 NAME: U.S.S. DULUTH PAGE 506

ITEM: 0000 - 9999 WHSE: 00 - 99

WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11724-12	09/20/85	35.00	FT	0170-0050	CABLE, ELECTRIC	FSGU 4	22.75	0.00
01	11724-13	09/20/85	27.00	EA	1310-0020	LAMP, FLUORESCENT&ACCESS.	LAMP F15T12/CW	49.95	0.00
01	11725-01	09/20/85	1.00	EA	0080-0020	BOX, HANDY	4"X4" BLANK COVER	0.38	0.00
01	11725-02	09/20/85	2.00	EA	0080-0070	BOX, HANDY	2"X4"SW. CVR RACO #865	0.44	0.00
01	11725-12	09/20/85	10.00	FT	2820-0120	WIRE, ELECTRICAL	16/3 TYPE S.O. TYREX	2.30	0.00
01	11725-13	09/20/85	20.00	EA	1220-0020	HANGER, NELSON	SLO-103	8.80	0.00
01	11725-15	09/20/85	10.00	FT	2400-0010	STL, H/R, FLAT BAR, ABR&PAIN	3/16" X 1 1/4"	3.00	0.00
01	11725-16	09/20/85	50.00	EA	2620-0020	TUBE, COMMERCIAL, MALE	1/2"	70.50	0.00
01	11726-01	09/20/85	3.00	EA	0930-0130	FUSE, STANDARD, NON	60 AMP , 250V	1.59	0.00
01	11726-02	09/20/85	10.00	EA	0930-0090	FUSE, STANDARD, NON	30 AMP , 250V	3.90	0.00
01	11726-03	09/20/85	30.00	EA	1220-0020	HANGER, NELSON	SLO-103	13.20	0.00
01	11726-04	09/20/85	20.00	EA	1220-0070	HANGER, NELSON	SLO-109	10.40	0.00
01	11726-05	09/20/85	10.00	EA	1220-0130	HANGER, NELSON	SLO-124	5.50	0.00
01	11726-06	09/20/85	10.00	EA	1220-0160	HANGER, NELSON	101-107-283	6.10	0.00
01	11726-07	09/20/85	1.00	EA	2620-0020	TUBE, COMMERCIAL, MALE	1/2"	1.41	0.00
01	11726-08	09/20/85	1.00	EA	0960-0010	GASKET ASSY	1/2" T&B #5262	0.40	0.00
01	11726-09	09/20/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11726-10	09/20/85	2.00	EA	0450-0200	DEVICE, WIRING	BRYANT SWITCH #5862	24.04	0.00
01	11726-11	09/20/85	70.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	31.50	0.00
01	11726-13	09/20/85	12.00	EA	1320-0040	LAMPS, INCANDESCENT	100A/RS/TF TUFFSKIN	22.08	0.00
01	11726-15	09/20/85	2.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	1.66	0.00
01	11726-16	09/20/85	3.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	3.21	0.00
01	11757-05	09/25/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11757-06	09/25/85	2.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.76	0.00
01	11757-07	09/25/85	2.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	0.44	0.00
01	11757-08	09/25/85	1.00	EA	0680-0100	ELECTRICAL SUPPLIES, MISC.	CRC 2-26 CONTACT LUBE	2.33	0.00
01	11757-09	09/25/85	2.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	1.66	0.00
01	11757-10	09/25/85	4.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	0.88	0.00
01	11757-11	09/25/85	2.00	EA	0080-0070	BOX, HANDY	2"X4"SW. CVR RACO #865	0.44	0.00
01	11757-12	09/25/85	4.00	EA	0080-0050	BOX, HANDY	2"X4"BLANK CVR RACO #860	0.96	0.00
01	11757-13	09/25/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11757-15	09/25/85	100.00	EA	1220-0020	HANGER, NELSON	SLO-103	44.00	0.00
01	11757-16	09/25/85	12.00	EA	1220-0040	HANGER, NELSON	SLO-105	6.00	0.00
01	11758-01	09/25/85	1.00	EA	2490-0050	TAPE	FRICTION, 3/4" X 70'	1.25	0.00
01	11758-02	09/25/85	1.00	EA	2490-0150	TAPE	SCOTCH #35 COLOR CODE RED	1.72	0.00
01	11758-03	09/25/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11758-04	09/25/85	1.00	EA	2490-0160	TAPE	SCOTCH #35 COLOR CODE WH	1.72	0.00
01	11758-05	09/25/85	1.00	EA	2490-0190	TAPE	SCOTCH VARN CAMBRIC#2520	6.68	0.00
01	11758-08	09/25/85	1.00	EA	0450-0200	DEVICE, WIRING	BRYANT SWITCH #5862	12.02	0.00
01	11758-10	09/25/85	10.00	FT	2400-0010	STL, H/R, FLAT BAR, ABR&PAIN	3/16" X 1 1/4"	3.00	0.00
01	11758-11	09/25/85	6.00	EA	1310-0040	LAMP, FLUORESCENT&ACCESS.	LAMP F40/CW	9.54	0.00
01	11758-12	09/25/85	2.00	EA	2490-0190	TAPE	SCOTCH VARN CAMBRIC#2520	13.36	0.00
01	11758-13	09/25/85	1.00	EA	0680-0100	ELECTRICAL SUPPLIES, MISC.	CRC 2-26 CONTACT LUBE	2.33	0.00
01	11758-15	09/25/85	2.00	EA	2450-0030	STONE, COMMUTATOR	PLASTONE CONT. FILE #3043	0.66	0.00
01	11758-16	09/25/85	2.00	EA	2450-0040	STONE, COMMUTATOR	PLASTONE CONT. FILE #3045	1.10	0.00
01	11759-01	09/25/85	45.00	FT	0170-0050	CABLE, ELECTRIC	FSGU 4	29.25	0.00
01	11759-04	09/25/85	50.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	22.50	0.00
01	11759-05	09/25/85	12.00	EA	1220-0070	HANGER, NELSON	SLO-109	6.24	0.00

JOB# 7500 NAME: U.S.S. DULUTH PAGE 507

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11759-06	09/25/85	2.00	EA	0680-0110	ELECTRICAL SUPPLIES, MISC.	DANGER TAG, BRADY #65630	1.58	0.00
01	11759-07	09/25/85	8.00	EA	1220-0140	HANGER, NELSON	101-107-281	3.60	0.00
01	11759-08	09/25/85	8.00	EA	1220-0150	HANGER, NELSON	101-107-282	5.76	0.00
01	11759-09	09/25/85	1.00	EA	1380-0090	MARKER, WIRE	DISPENSER, SCOTCH CODE#STD	1.27	0.00
01	11759-10	09/25/85	10.00	EA	1380-0080	MARKER, WIRE	SCOTCH CODE, 3M, ROLL	7.50	0.00
01	11759-11	09/25/85	1.00	GAL	2300-0110	SOLVENT	ULTRA SOLV, TEMPLEX	9.25	0.00
01	11759-13	09/25/85	36.00	EA	1220-0140	HANGER, NELSON	101-107-281	16.20	0.00
01	11759-15	09/25/85	26.00	EA	1320-0020	LAMPS, INCANDESCENT	60A 130V	22.88	0.00
01	11759-16	09/25/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11760-02	09/25/85	1.00	EA	0080-0050	BOX, HANDY	2"X4"BLANK CVR RACO #860	0.24	0.00
01	11760-03	09/25/85	1.00	EA	0080-0020	BOX, HANDY	4"X4" BLANK COVER	0.38	0.00
01	11760-04	09/25/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11760-05	09/25/85	200.00	EA	1220-0020	HANGER, NELSON	SLO-103	88.00	0.00
01	11760-06	09/25/85	14.00	EA	1220-0020	HANGER, NELSON	SLO-103	6.16	0.00
01	11760-07	09/25/85	8.00	EA	1320-0020	LAMPS, INCANDESCENT	60A 130V	7.04	0.00
01	11760-08	09/25/85	1.00	EA	1310-0030	LAMP, FLUORESCENT&ACCESS.	LAMP F20T12/CW	2.74	0.00
01	11760-09	09/25/85	15.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	6.75	0.00
01	11760-10	09/25/85	1.00	EA	0360-0130	CONNECTOR, SQUEEZE	3/4" X 90*	1.62	0.00
01	11760-12	09/25/85	1.00	EA	0360-0040	CONNECTOR, SQUEEZE	3/4"	0.96	0.00
01	11760-13	09/25/85	85.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	38.25	0.00
01	11760-15	09/25/85	6.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	2.28	0.00
01	11760-16	09/25/85	4.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	4.28	0.00
01	11761-01	09/24/85	45.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	20.25	0.00
01	11761-02	09/24/85	80.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	36.00	0.00
01	11761-03	09/24/85	2.00	EA	2555-0070	TEST CLIPS & INSULATORS	MUELLER CLIP #63	1.10	0.00
01	11761-04	09/24/85	4.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	1.52	0.00
01	11761-05	09/24/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11761-06	09/24/85	3.00	EA	2620-0020	TUBE, COMMERCIAL, MALE	1/2"	4.23	0.00
01	11761-07	09/24/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11761-08	09/24/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11761-09	09/24/85	1.00	EA	1300-0010	KICKPIPE	1/2" X 14"	1.82	0.00
01	11761-10	09/24/85	1.00	EA	2610-0020	TUBE, COMMERCIAL, FEMALE	1/2"	1.49	0.00
01	11761-11	09/24/85	12.00	FT	2820-0120	WIRE, ELECTRICAL	16/3 TYPE S.O. TYREX	2.76	0.00
01	11761-12	09/24/85	2.00	GAL	2300-0110	SOLVENT	ULTRA SOLV, TEMPLEX	18.50	0.00
01	11761-13	09/24/85	15.00	EA	1220-0020	HANGER, NELSON	SLO-103	6.60	0.00
01	11761-15	09/24/85	6.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	2.28	0.00
01	11761-16	09/24/85	4.00	EA	1220-0140	HANGER, NELSON	101-107-281	1.80	0.00
01	11762-01	09/24/85	2.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	2.14	0.00
01	11762-02	09/24/85	10.00	EA	0930-0040	FUSE, STANDARD, NON	6 AMP , 250V	5.50	0.00
01	11762-03	09/24/85	10.00	EA	0930-0080	FUSE, STANDARD, NON	25 AMP , 250V	2.00	0.00
01	11762-04	09/24/85	10.00	EA	0930-0090	FUSE, STANDARD, NON	30 AMP , 250V	3.90	0.00
01	11762-05	09/24/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11762-06	09/24/85	1.00	EA	0080-0020	BOX, HANDY	4"X4" BLANK COVER	0.38	0.00
01	11762-07	09/24/85	1.00	EA	0680-0100	ELECTRICAL SUPPLIES, MISC.	CRC 2-26 CONTACT LUBE	2.33	0.00
01	11762-08	09/24/85	1.00	EA	1440-0340	NIPPLE, PIPE, STD GALV	1/2" X CLOSE, STD	0.18	0.00
01	11762-09	09/24/85	1.00	EA	1440-0450	NIPPLE, PIPE, STD GALV	3/4" X CLOSE STD	0.21	0.00
01	11762-10	09/24/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11762-11	09/24/85	10.00	FT	2820-0120	WIRE, ELECTRICAL	16/3 TYPE S.O. TYREX	2.30	0.00

JOB# 7500 NAME: U.S.S. DULUTH PAGE 508

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11762-12	09/24/85	14.00	EA	1220-0160	HANGER, NELSON	101-107-283	8.54	0.00
01	11762-13	09/24/85	14.00	EA	1220-0150	HANGER, NELSON	101-107-282	10.08	0.00
01	11762-15	09/24/85	1.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	0.83	0.00
01	11762-16	09/24/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11757-01	09/25/85	2.00	EA	2450-0030	STONE, COMMUTATOR	PLASTONE CONT. FILE #3043	0.66	0.00
01	11757-02	09/25/85	2.00	EA	2450-0040	STONE, COMMUTATOR	PLASTONE CONT. FILE #3045	1.10	0.00
01	11777-01	09/27/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11777-02	09/27/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11777-03	09/27/85	1.00	EA	2490-0190	TAPE	SCOTCH VARN CAMBRIC#2520	6.68	0.00
01	11777-04	09/27/85	1.00	EA	2490-0060	TAPE	GLASS #27, 3/4" X 66'	3.81	0.00
01	11777-05	09/27/85	27.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	12.15	0.00
01	11777-06	09/27/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11777-07	09/27/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11777-08	09/27/85	6.00	EA	0960-0060	GASKET ASSY	2" T&B #5267	6.78	0.00
01	11777-09	09/27/85	1.00	EA	0360-0140	CONNECTOR, SQUEEZE	1" X 90*	2.85	0.00
01	11777-10	09/27/85	2.00	EA	0360-0090	CONNECTOR, SQUEEZE	2"	12.94	0.00
01	11777-11	09/27/85	5.00	EA	0360-0060	CONNECTOR, SQUEEZE	1"	6.90	0.00
01	11777-12	09/27/85	5.00	EA	0360-0080	CONNECTOR, SQUEEZE	1 1/2"	17.20	0.00
01	11777-13	09/27/85	3.00	EA	1220-0160	HANGER, NELSON	101-107-283	1.83	0.00
01	11777-15	09/27/85	3.00	EA	1220-0170	HANGER, NELSON	101-107-284	3.36	0.00
01	11777-16	09/27/85	1.00	EA	2490-0100	TAPE	ROOVERS EMBOSS 1/2"X.015	3.93	0.00
01	11778-01	09/30/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11778-02	09/30/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11778-03	09/30/85	6.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	9.90	0.00
01	11778-04	09/30/85	1.00	EA	0450-0200	DEVICE, WIRING	BRYANT SWITCH #5862	12.02	0.00
01	11778-05	09/30/85	1.00	EA	0080-0070	BOX, HANDY	2"X4"SW. CVR RACO #865	0.22	0.00
01	11778-06	09/30/85	4.00	EA	0920-0100	FUSE, MIDGET, FNM	15 AMP , 250V	6.00	0.00
01	11778-07	09/30/85	7.00	EA	1220-0020	HANGER, NELSON	SLO-103	3.08	0.00
01	11778-10	09/30/85	15.00	FT	0170-0090	CABLE, ELECTRIC	TSGU 9	10.95	0.00
01	11778-12	09/30/85	1.00	EA	0360-0090	CONNECTOR, SQUEEZE	2"	6.47	0.00
01	11778-13	09/30/85	1.00	EA	0360-0070	CONNECTOR, SQUEEZE	1 1/4"	2.47	0.00
01	11778-15	09/30/85	3.00	EA	0360-0060	CONNECTOR, SQUEEZE	1"	4.14	0.00
01	11779-01	09/30/85	6.00	EA	0910-0170	FUSE, GLASS	MDL 4	3.00	0.00
01	11779-02	09/30/85	1.00	EA	2490-0190	TAPE	SCOTCH VARN CAMBRIC#2520	6.68	0.00
01	11779-03	09/30/85	1.00	EA	2490-0050	TAPE	FRICTION, 3/4" X 70'	1.25	0.00
01	11779-04	09/30/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11779-05	09/30/85	1.00	EA	2490-0150	TAPE	SCOTCH #35 COLOR CODE RED	1.72	0.00
01	11779-06	09/30/85	1.00	EA	2490-0160	TAPE	SCOTCH #35 COLOR CODE WH	1.72	0.00
01	11779-07	09/30/85	1.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	3.24	0.00
01	11779-08	09/30/85	26.00	FT	0170-0070	CABLE, ELECTRIC	TSGA 4	17.42	0.00
01	11779-09	09/30/85	16.00	FT	0170-0010	CABLE, ELECTRIC	DSGA 4	10.24	0.00
01	11779-10	09/30/85	20.00	EA	0920-0100	FUSE, MIDGET, FNM	15 AMP , 250V	30.00	0.00
01	11779-11	09/30/85	120.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	54.00	0.00
01	11779-12	09/30/85	90.00	FT	0170-0050	CABLE, ELECTRIC	FSGU 4	58.50	0.00
01	11779-13	09/30/85	120.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	54.00	0.00
01	11779-15	09/30/85	1.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	0.83	0.00
01	11779-16	09/30/85	1.00	EA	0080-0050	BOX, HANDY	2"X4"BLANK CVR RACO #860	0.24	0.00
01	11780-01	09/30/85	15.00	FT	0170-0040	CABLE, ELECTRIC	DSGU 9	9.45	0.00

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11780-02	09/30/85	8.00	EA	1220-0020	HANGER, NELSON	SLO-103	3.52	0.00
01	11780-03	09/30/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11780-04	09/30/85	100.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	45.00	0.00
01	11780-05	09/30/85	70.00	FT	0170-0090	CABLE, ELECTRIC	TSGU 9	51.10	0.00
01	11780-06	09/30/85	1.00	EA	0360-0040	CONNECTOR, SQUEEZE	3/4"	0.96	0.00
01	11780-07	09/30/85	2.00	EA	0930-0100	FUSE, STANDARD, NON	40 AMP , 250V	1.46	0.00
01	11780-08	09/30/85	3.00	EA	0930-0040	FUSE, STANDARD, NON	6 AMP , 250V	1.65	0.00
01	11780-09	09/30/85	5.00	EA	1320-0120	LAMPS, INCANDESCENT	6S6-6 WATT GE IND. 130V	3.10	0.00
01	11780-10	09/30/85	45.00	EA	1220-0020	HANGER, NELSON	SLO-103	19.80	0.00
01	11780-11	09/30/85	20.00	EA	2620-0020	TUBE, COMMERCIAL, MALE	1/2"	28.20	0.00
01	11780-12	09/30/85	20.00	EA	0960-0010	GASKET ASSY	1/2" T&B #5262	8.00	0.00
01	11780-13	09/30/85	4.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	12.96	0.00
01	11781-02	09/25/85	8.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	3.04	0.00
01	11781-03	09/25/85	1.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	0.83	0.00
01	11781-04	09/25/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11781-05	09/25/85	135.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	60.75	0.00
01	11781-06	09/25/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11781-07	09/25/85	100.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	45.00	0.00
01	11781-08	09/25/85	4.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	1.52	0.00
01	11781-09	09/25/85	10.00	EA	0920-0100	FUSE, MIDGET, FNM	15 AMP , 250V	15.00	0.00
01	11781-10	09/25/85	30.00	EA	1220-0020	HANGER, NELSON	SLO-103	13.20	0.00
01	11781-11	09/25/85	6.00	EA	2620-0020	TUBE, COMMERCIAL, MALE	1/2"	8.46	0.00
01	11781-12	09/25/85	6.00	EA	0960-0010	GASKET ASSY	1/2" T&B #5262	2.40	0.00
01	11781-13	09/25/85	3.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	3.21	0.00
01	11810-01	10/07/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11810-02	10/07/85	12.00	FT	2820-0120	WIRE, ELECTRICAL	16/3 TYPE S.O. TYREX	2.76	0.00
01	11810-03	10/07/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11810-04	10/07/85	10.00	EA	0920-0110	FUSE, MIDGET, FNM	20 AMP , 250V	15.80	0.00
01	11810-07	10/07/85	50.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	22.50	0.00
01	11810-08	10/07/85	1.00	EA	1300-0010	KICKPIPE	1/2" X 14"	1.82	0.00
01	11810-09	10/07/85	40.00	FT	0170-0080	CABLE, ELECTRIC	TSGU 4	20.40	0.00
01	11810-10	10/07/85	15.00	FT	0170-0060	CABLE, ELECTRIC	MSCU 7	12.60	0.00
01	11810-11	10/07/85	4.00	EA	0950-0020	FUSE, MISC.	30 AMP , 125V PLUG	1.84	0.00
01	11810-16	10/07/85	5.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	1.90	0.00
01	11811-02	10/04/85	1.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	0.83	0.00
01	11811-03	10/04/85	1.00	EA	0360-0110	CONNECTOR, SQUEEZE	3/8" X 90*	0.48	0.00
01	11811-04	10/04/85	1.00	EA	0080-0070	BOX, HANDY	2"X4"SW. CVR RACO #865	0.22	0.00
01	11811-05	10/04/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11811-06	10/04/85	30.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	13.50	0.00
01	11811-07	10/04/85	12.00	FT	0170-0080	CABLE, ELECTRIC	TSGU 4	6.12	0.00
01	11811-09	10/04/85	20.00	EA	0920-0100	FUSE, MIDGET, FNM	15 AMP , 250V	30.00	0.00
01	11811-10	10/04/85	20.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	9.00	0.00
01	11811-13	10/04/85	7.00	EA	1320-0120	LAMPS, INCANDESCENT	6S6-6 WATT GE IND. 130V	4.34	0.00
01	11811-15	10/04/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11813-10	10/03/85	1.00	EA	0050-0020	BOX, BELL	1 GANG SLATER #B-25	4.24	0.00
01	11813-11	10/03/85	1.00	EA	0050-0080	BOX, BELL	2X4 SLATER BLANK CVR #B-1	0.63	0.00
01	11813-12	10/03/85	10.00	EA	0920-0120	FUSE, MIDGET, FNM	25 AMP , 250V	14.50	0.00
01	11814-01	10/03/85	6.00	EA	1220-0070	HANGER, NELSON	SLO-109	3.12	0.00

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11814-02	10/03/85	50.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	22.50	0.00
01	11814-03	10/03/85	10.00	EA	1220-0020	HANGER, NELSON	SLO-103	4.40	0.00
01	11814-05	10/03/85	1.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	3.24	0.00
01	11814-06	10/03/85	1.00	EA	0080-0070	BOX, HANDY	2"X4"SW. CVR RACO #865	0.22	0.00
01	11814-08	10/03/85	6.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	1.32	0.00
01	11814-09	10/03/85	6.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	19.44	0.00
01	11814-10	10/03/85	5.00	EA	0450-0200	DEVICE, WIRING	BRYANT SWITCH #5862	60.10	0.00
01	11814-11	10/03/85	3.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	3.21	0.00
01	11814-12	10/03/85	35.00	FT	0170-0050	CABLE, ELECTRIC	FSGU 4	22.75	0.00
01	11814-13	10/03/85	1.00	EA	2490-0150	TAPE	SCOTCH #35 COLOR CODE RED	1.72	0.00
01	11814-15	10/03/85	1.00	EA	2490-0160	TAPE	SCOTCH #35 COLOR CODE WH	1.72	0.00
01	11816-01	10/03/85	50.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	22.50	0.00
01	11816-02	10/03/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11816-03	10/03/85	2.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	3.30	0.00
01	11816-04	10/03/85	10.00	EA	0920-0100	FUSE, MIDGET, FNM	15 AMP , 250V	15.00	0.00
01	11816-07	10/03/85	24.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	19.92	0.00
01	11816-08	10/03/85	50.00	EA	1220-0020	HANGER, NELSON	SLO-103	22.00	0.00
01	11816-09	10/03/85	30.00	EA	1220-0070	HANGER, NELSON	SLO-109	15.60	0.00
01	11816-10	10/03/85	30.00	EA	1220-0130	HANGER, NELSON	SLO-124	16.50	0.00
01	11816-11	10/03/85	1.00	EA	1840-0020	RELAY. POTTER BRUMFEILD	#KRP 14DG, 12VDC	15.99	0.00
01	11816-12	10/03/85	1.00	EA	1840-0010	RELAY. POTTER BRUMFEILD	BASE ONLY, #27E 123	5.96	0.00
01	11816-13	10/03/85	150.00	FT	0170-0050	CABLE, ELECTRIC	FSGU 4	97.50	0.00
01	11816-15	10/03/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11816-16	10/03/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11817-01	10/03/85	4.00	EA	1220-0020	HANGER, NELSON	SLO-103	1.76	0.00
01	11817-02	10/03/85	2.00	EA	0450-0100	DEVICE, WIRING	MCGILL TGL SW. #BP-10 DPST	5.48	0.00
01	11817-03	10/03/85	200.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	90.00	0.00
01	11817-04	10/03/85	1.00	EA	0680-0100	ELECTRICAL SUPPLIES, MISC.	CRC 2-26 CONTACT LUBE	2.33	0.00
01	11817-05	10/03/85	1.00	EA	0050-0010	BOX, BELL	2 GANG BELL #276-6	6.85	0.00
01	11817-06	10/03/85	1.00	EA	0050-0040	BOX, BELL	4X4 SLATER BLANK CVR #B-2	0.90	0.00
01	11817-07	10/03/85	2.00	EA	1440-0340	NIPPLE, PIPE, STD GALV	1/2" X CLOSE, STD	0.36	0.00
01	11817-08	10/03/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11817-09	10/03/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11817-10	10/03/85	40.00	EA	1220-0020	HANGER, NELSON	SLO-103	17.60	0.00
01	11817-12	10/03/85	6.00	FT	2820-0130	WIRE, ELECTRICAL	14/3 TYPE S. O. TYREX	2.04	0.00
01	11817-13	10/03/85	1.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	3.24	0.00
01	11817-15	10/03/85	20.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	7.60	0.00
01	11817-16	10/03/85	4.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	4.28	0.00
01	11818-01	10/03/85	4.00	EA	0080-0010	BOX, HANDY	4"X4" RACO #230	5.28	0.00
01	11818-02	10/03/85	3.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	0.66	0.00
01	11818-04	10/03/85	8.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	25.92	0.00
01	11818-05	10/03/85	5.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	1.10	0.00
01	11818-06	10/03/85	20.00	EA	0920-0110	FUSE, MIDGET, FNM	20 AMP , 250V	31.60	0.00
01	11818-07	10/03/85	10.00	EA	0930-0070	FUSE, STANDARD, NON	20 AMP , 250V	4.30	0.00
01	11818-08	10/03/85	1.00	EA	0050-0010	BOX, BELL	2 GANG BELL #276-6	6.85	0.00
01	11818-09	10/03/85	1.00	EA	0050-0040	BOX, BELL	4X4 SLATER BLANK CVR #B-2	0.90	0.00
01	11818-10	10/03/85	10.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	32.40	0.00
01	11818-11	10/03/85	12.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	2.64	0.00

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11818-12	10/03/85	25.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	11.25	0.00
01	11818-13	10/03/85	3.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	3.21	0.00
01	11818-15	10/03/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11818-16	10/03/85	200.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	90.00	0.00
01	11820-01	10/03/85	4.00	EA	0080-0020	BOX, HANDY	4"X4" BLANK COVER	1.52	0.00
01	11820-02	10/03/85	1.00	EA	0080-0030	BOX, HANDY	4"X4"2GANG DUP RECEPT CVR	0.60	0.00
01	11820-03	10/03/85	5.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	16.20	0.00
01	11820-04	10/03/85	9.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	1.98	0.00
01	11820-05	10/03/85	6.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	6.42	0.00
01	11820-06	10/03/85	12.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	4.56	0.00
01	11820-07	10/03/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11820-08	10/03/85	1.00	EA	0680-0100	ELECTRICAL SUPPLIES, MISC.	CRC 2-26 CONTACT LUBE	2.33	0.00
01	11820-09	10/03/85	1.00	EA	2490-0100	TAPE	ROOVERS EMBOSS 1/2"X.015	3.93	0.00
01	11820-10	10/03/85	30.00	FT	0170-0020	CABLE, ELECTRIC	DSGU 4	13.50	0.00
01	11820-11	10/03/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11820-12	10/03/85	1.00	EA	0450-0200	DEVICE, WIRING	BRYANT SWITCH #5862	12.02	0.00
01	11820-13	10/03/85	4.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	1.52	0.00
01	11820-15	10/03/85	1.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	3.24	0.00
01	11820-16	10/03/85	1.00	EA	2490-0090	TAPE	ROOVERS EMBOSS 5/16"X.015	3.01	0.00
01	11835-03	10/08/85	2.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.76	0.00
01	11835-04	10/08/85	1.00	EA	0335-0010	CONDULET	1/2" LB W/COV & GSKT	5.46	0.00
01	11835-11	10/08/85	2.00	EA	0080-0050	BOX, HANDY	2"X4"BLANK CVR RACO #860	0.48	0.00
01	11836-01	10/08/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11836-02	10/08/85	1.00	EA	0360-0120	CONNECTOR, SQUEEZE	1/2" X 90*	1.99	0.00
01	11836-03	10/08/85	5.00	FT	0330-0070	CONDUIT	3/4" LIQUID TITE	10.15	0.00
01	11836-04	10/08/85	2.00	EA	0350-0050	CONNECTOR, FLEX	3/4" STRT, LIQ/T T&B #5333	3.50	0.00
01	11836-05	10/08/85	2.00	EA	0960-0020	GASKET ASSY	3/4" T&B #5263	0.68	0.00
01	11836-06	10/08/85	35.00	FT	2820-0040	WIRE, ELECTRICAL	#12 MTW STRANDED, BLACK	3.85	0.00
01	11836-07	10/08/85	35.00	FT	2820-0030	WIRE, ELECTRICAL	#14 MTW STRANDED, BLACK	1.40	0.00
01	11836-09	10/08/85	1.00	EA	0360-0110	CONNECTOR, SQUEEZE	3/8" X 90*	0.48	0.00
01	11836-10	10/08/85	4.00	EA	1220-0020	HANGER, NELSON	SLO-103	1.76	0.00
01	11836-12	10/08/85	1.00	EA	0335-0010	CONDULET	1/2" LB W/COV & GSKT	5.46	0.00
01	11836-13	10/08/85	1.00	EA	1440-0340	NIPPLE, PIPE, STD GALV	1/2" X CLOSE, STD	0.18	0.00
01	11836-15	10/08/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11836-16	10/08/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11838-01	10/08/85	1.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	0.83	0.00
01	11838-02	10/08/85	1.00	EA	0080-0050	BOX, HANDY	2"X4"BLANK CVR RACO #860	0.24	0.00
01	11838-03	10/08/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11838-12	10/08/85	1.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	0.38	0.00
01	11838-13	10/08/85	10.00	EA	2900-0040	WHSE SUPPLIES, MISC.	A. J. GERRARD SEAL #203 SS	1.50	0.00
01	11838-15	10/08/85	1.00	EA	2900-0030	WHSE SUPPLIES, MISC.	A. J. GERRARD BNDG#SC-307SS	20.88	0.00
01	11838-16	10/08/85	5.00	FT	2820-0120	WIRE, ELECTRICAL	16/3 TYPE S. O. TYREX	1.15	0.00
01	11856-13	10/09/85	3.00	EA	0940-0020	FUSE, NOS	3 AMP , 600V	2.67	0.00
01	11884-10	10/14/85	1.00	EA	2620-0030	TUBE, COMMERCIAL, MALE	3/4"	2.39	0.00
01	11884-11	10/14/85	1.00	EA	0960-0020	GASKET ASSY	3/4" T&B #5263	0.34	0.00
01	11884-12	10/14/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11884-13	10/14/85	1.00	EA	0360-0110	CONNECTOR, SQUEEZE	3/8" X 90*	0.48	0.00
01	11884-15	10/14/85	10.00	FT	0170-0080	CABLE, ELECTRIC	TSGU 4	5.10	0.00

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WHSE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
01	11884-16	10/14/85	80.00	FT	0170-0090	CABLE, ELECTRIC	TSGU 9	58.40	0.00
01	11905-07	10/15/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	11905-09	10/15/85	10.00	EA	0920-0100	FUSE, MIDGET, FNM	15 AMP , 250V	15.00	0.00
01	11905-10	10/15/85	10.00	EA	0920-0130	FUSE, MIDGET, FNM	30 AMP , 250V	8.10	0.00
01	11905-11	10/15/85	10.00	EA	0930-0060	FUSE, STANDARD, NON	15 AMPO , 250V	3.40	0.00
01	11905-12	10/15/85	10.00	EA	0930-0080	FUSE, STANDARD, NON	25 AMP , 250V	2.00	0.00
01	11905-13	10/15/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11905-15	10/15/85	2.00	EA	2490-0190	TAPE	SCOTCH VARN CAMBRIC#2520	13.44	0.00
01	11905-16	10/15/85	1.00	EA	0930-0130	FUSE, STANDARD, NON	60 AMP , 250V	0.53	0.00
01	11932-01	10/16/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
01	11932-03	10/16/85	1.00	EA	0930-0130	FUSE, STANDARD, NON	60 AMP , 250V	0.53	0.00
01	11932-04	10/16/85	5.00	EA	2555-0070	TEST CLIPS & INSULATORS	MUELLER CLIP #63	2.75	0.00
01	11932-09	10/16/85	1.00	EA	0360-0040	CONNECTOR, SQUEEZE	3/4"	0.96	0.00
01	12077-04	11/12/85	3.00	EA	0930-0150	FUSE, STANDARD, NON	100A 250V	7.83	0.00
01	12089-02	11/15/85	1.00	EA	2450-0020	STONE, COMMUTATOR	IDEAL #23-008M	6.96	0.00
01	12092-11	11/15/85	1.00	EA	0360-0110	CONNECTOR, SQUEEZE	3/8" X 90*	0.48	0.00
01	12137-10	11/21/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.62	0.00
01	12156-08	11/25/85	2.00	EA	0360-0010	CONNECTOR, SQUEEZE	1/2"	2.48	0.00
01	12156-09	11/25/85	20.00	FT	0170-0080	CABLE, ELECTRIC	TSGU 4	10.20	0.00
01	12156-11	11/25/85	10.00	FT	2400-0030	STL, H/R, FLAT BAR, ABR&PAIN	1/4" X 1 1/4"	2.80	0.00
01	12156-12	11/25/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.62	0.00
01	12161-12	11/26/85	1.00	EA	1300-0030	KICKPIPE	1" X 14"	2.30	0.00
01	12161-13	11/26/85	1.00	EA	2610-0040	TUBE, COMMERCIAL, FEMALE	1"	4.73	0.00
01	12164-10	11/26/85	35.00	FT	0170-0080	CABLE, ELECTRIC	TSGU 4	17.85	0.00
01	12164-11	11/26/85	1.00	EA	0080-0010	BOX, HANDY	4"X4" RACO #230	1.41	0.00
01	12164-12	11/26/85	1.00	EA	0080-0030	BOX, HANDY	4"X4"2GANG DUP RECEPT CVR	0.60	0.00
01	12164-13	11/26/85	2.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	6.46	0.00
01	12164-16	11/26/85	1.00	EA	0360-0020	CONNECTOR, SQUEEZE	3/8" DUPLEX	1.07	0.00
01	12297-03	12/03/85	1.00	FT	2660-0040	TUBING, SHRINK	1/2"	0.47	0.00
01	12321-15	12/19/85	1.00	EA	2490-0060	TAPE	GLASS #27, 3/4" X 66'	3.81	0.00
01	12452-13	01/02/86	6.00	EA	0930-0130	FUSE, STANDARD, NON	60 AMP , 250V	3.18	0.00
01	12630-01	01/08/86	1.00	EA	0450-0040	DEVICE, WIRING	BRYANT 5269N F. CORD CAP	7.42	0.00
02	11722-01	09/23/85	0.25	EA	2240-0010	SHEET METAL, STNLS 304, 2B	11 GA. X 48" X 120"	45.87	0.00
02	11722-02	09/23/85	1.25	EA	2230-0020	SHEET METAL, REDICOTE	16 GA. X 48" X 120"	43.44	0.00
02	11722-03	09/23/85	1.00	EA	2140-0010	SHEET METAL, ALUMINUM 5052	.125 X 48" X 120"	73.18	0.00
02	11722-04	09/23/85	1.00	EA	2240-0050	SHEET METAL, STNLS 304, 2B	26 GA. X 48" X 120"	37.78	0.00
02	11753-01	09/25/85	2.00	EA	0740-0030	ELECTRODE, TUNGSTEN	1/8" #2309 THOR-TUNG 2%	9.88	0.00
02	11753-02	09/25/85	5.00	LB	0710-0020	ELECTRODE, WELDING, STNLS	1/16" MC KAY #ER308L	16.15	0.00
02	11753-03	09/25/85	1.00	EA	2250-0040	SHEET METAL, STNLS 304, #4	18 GA. X 48" X 120"	84.44	0.00
02	11753-04	09/25/85	1.00	EA	2140-0010	SHEET METAL, ALUMINUM 5052	.125 X 48" X 120"	73.18	0.00
02	11753-07	09/25/85	0.50	EA	2250-0030	SHEET METAL, STNLS 304, #4	16 GA. X 48" X 120"	63.29	0.00
02	11753-08	09/25/85	6.00	EA	0300-0030	COMPOUND, CAULKING	DOW SILICONE #732 ALUM.	23.70	0.00
02	11753-09	09/25/85	10.00	EA	2900-0090	WHSE SUPPLIES, MISC.	SCOTCHBRITE PAD, 3M #7447	7.20	0.00
02	11774-01	09/30/85	1.00	EA	2230-0020	SHEET METAL, REDICOTE	16 GA. X 48" X 120"	34.75	0.00
02	11774-02	09/30/85	1.00	EA	2140-0030	SHEET METAL, ALUMINUM 5052	.063 X 48" X 120"	36.92	0.00
02	11774-03	09/30/85	20.00	FT	2360-0020	STEEL, H/R, ANGLE, BLK	1 1/2" X 1 1/2" X 1/8"	5.00	0.00
02	11774-04	09/30/85	1.00	EA	2230-0020	SHEET METAL, REDICOTE	16 GA. X 48" X 120"	34.75	0.00
02	11774-05	09/30/85	0.50	EA	2140-0010	SHEET METAL, ALUMINUM 5052	.125 X 48" X 120"	36.59	0.00

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WHSE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
02	11774-06	09/30/85	0.25	EA	2240-0010	SHEET METAL, STNLS 304, 2B	11 GA. X 48" X 120"	45.87	0.00
02	11806-03	10/03/85	0.25	EA	2220-0030	SHEET METAL, GALV.	16 GA. X 48" X 120"	8.34	0.00
02	11806-04	10/03/85	1.50	EA	2250-0040	SHEET METAL, STNLS 304, #4	18 GA. X 48" X 120"	126.66	0.00
02	11806-08	10/03/85	12.00	EA	2140-0020	SHEET METAL, ALUMINUM 5052	.080 X 48" X 120"	560.64	0.00
02	11832-01	10/08/85	2.00	EA	2250-0040	SHEET METAL, STNLS 304, #4	18 GA. X 48" X 120"	168.88	0.00
02	11832-07	10/08/85	2.00	LB	0710-0020	ELECTRODE, WELDING, STNLS	1/16" MC KAY #ER308L	6.46	0.00
02	11855-01	10/08/85	12.00	EA	0300-0030	COMPOUND, CAULKING	DOW SILICONE #732 ALUM.	47.40	0.00
02	11898-02	10/16/85	0.25	EA	2240-0040	SHEET METAL, STNLS 304, 2B	18 GA. X 48" X 120"	16.95	0.00
02	11898-10	10/16/85	2.00	EA	0300-0050	COMPOUND, CAULKING	DOW SILICONE #732 CLEAR	7.90	0.00
02	11899-11	10/14/85	0.50	EA	2220-0020	SHEET METAL, GALV.	14 GA. X 48" X 120"	22.11	0.00
02	11925-06	10/18/85	4.00	LFT	1640-0020	PAPER	TEMP. , .020X48"HEAVYWEIGHT	1.20	0.00
02	12352-09	11/05/85	2.00	EA	0300-0030	COMPOUND, CAULKING	DOW SILICONE #732 ALUM.	5.90	0.00
06	11799-01	10/04/85	10.00	EA	1710-0040	PLYWOOD, AC EXTERIOR	3/4" X 4' X 8'	147.90	0.00
06	11848-03	10/09/85	35.00	EA	1345-0010	LINER, PLASTIC	6 MIL, 55 GAL. DRUM	30.10	0.00
06	12060-10	11/07/85	150.00	LFT	0460-0010	FIR, DOUGLAS, GR#1, S4S	2" X 4"	25.50	0.00
07	11785-01	10/01/85	3.00	LB	0720-0100	ELECTRODE, WELDING, STEEL	3/32" #7018, AIRCO	2.52	0.00
07	11911-07	10/14/85	1.00	LB	1890-0060	ROD, WELDING, 36"	1/8" #308 STNLS	3.61	0.00
09	11769-01	09/30/85	25.00	GAL	1620-0100	PAINT	ENAMEL, SAFETY BLUE, #3114	320.25	0.00
09	11769-02	09/30/85	5.00	GAL	1620-0100	PAINT	ENAMEL, SAFETY BLUE, #3114	64.05	0.00
09	11853-01	10/07/85	1.00	EA	1900-0040	ROLLER, PAINT	9" 1/2" NAP ROLLER COVER	2.21	0.00
09	11853-02	10/07/85	1.00	EA	1900-0040	ROLLER, PAINT	9" 1/2" NAP ROLLER COVER	2.21	0.00
11	11732-02	09/25/85	0.10	CWT	2440-0020	PLATE, MILD STEEL	1/4"	0.03	0.00
11	11732-05	09/25/85	0.58	CWT	2440-0060	PLATE, MILD STEEL	1/2"	15.37	0.00
11	11732-06	09/25/85	1.25	CWT	2440-0060	PLATE, MILD STEEL	1/2"	33.13	0.00
11	11736-01	09/23/85	1.00	EA	0955-0030	GASES	ARGON, 100%, 336CU. FT. CYL.	18.48	0.00
11	11736-06	09/23/85	22.00	FT	2410-0060	STL, H/R, ANGLE, ABRATE&PAIN	3" X 2" X 1/4"	20.68	0.00
11	11736-07	09/23/85	12.00	FT	2400-0120	STL, H/R, FLAT BAR, ABR&PAIN	3/8" X 4"	11.64	0.00
11	11736-08	09/23/85	8.00	FT	2410-0130	STL, H/R, ANGLE, ABRATE&PAIN	6" X 4" X 1/2"	29.84	0.00
11	11736-09	09/23/85	0.11	CWT	2440-0060	PLATE, MILD STEEL	1/2"	2.92	0.00
11	11736-10	09/23/85	1.84	CWT	2440-0060	PLATE, MILD STEEL	1/2"	48.76	0.00
11	11741-01	09/23/85	0.23	CWT	2440-0060	PLATE, MILD STEEL	1/2"	6.10	0.00
11	11747-03	09/25/85	0.20	CWT	2440-0060	PLATE, MILD STEEL	1/2"	5.30	0.00
11	11747-04	09/25/85	1.00	FT	2400-0100	STL, H/R, FLAT BAR, ABR&PAIN	Y/8" X 3"	0.85	0.00
11	11747-05	09/25/85	2.00	FT	2410-0070	STL, H/R, ANGLE, ABRATE&PAIN	3" X 3" X 1/4"	1.78	0.00
11	11747-05	09/25/85	2.00	FT	2410-0070	STL, H/R, ANGLE, ABRATE&PAIN	3" X 3" X 1/4"	1.78	0.00
11	11747-06	09/25/85	2.00	FT	2400-0080	STL, H/R, FLAT BAR, ABR&PAIN	3/8" X 2"	1.20	0.00
11	11747-08	09/25/85	29.00	FT	2410-0030	STL, H/R, ANGLE, ABRATE&PAIN	2" X 2" X 1/4"	27.84	0.00
11	11747-05	09/25/85	2.00-	FT	2410-0070	STL, H/R, ANGLE, ABRATE&PAIN	3" X 3" X 1/4"	1.78-	0.00
11	11789-07	10/02/85	60.00	LB	0720-0181	ELECTRODE, WELDING, STEEL	1/8" #8018-C3 W/MIL CERTS	59.40	0.00
11	11789-08	10/02/85	60.00	LB	0720-0121	ELECTRODE, WELDING, STEEL	1/8"#7018 AIR W/MIL CERTS	43.80	0.00
11	11789-09	10/02/85	2.00	LB	0720-0121	ELECTRODE, WELDING, STEEL	1/8"#7018 AIR W/MIL CERTS	1.46	0.00
11	11789-10	10/02/85	60.00	LB	2830-0400	WIRE, WELDING	FABCO RXR 3/32" WIRE	45.00	0.00
11	11847-03	10/08/85	1.00	FT	1970-0020	RND BAR, H/R, ABRATE&PAINT	1/2"	0.35	0.00
11	11847-04	10/08/85	1.00	FT	2400-0040	STL, H/R, FLAT BAR, ABR&PAIN	1/4" X 1 1/2"	0.48	0.00
11	11887-02	10/16/85	1.37	CWT	2440-0020	PLATE, MILD STEEL	1/4"	0.47	0.00
11	12031-04	10/31/85	0.51	CWT	2440-0100	PLATE, MILD STEEL	3/4"	11.48	0.00
11	12260-06	12/06/85	1.00	CUFT	0955-0010	GASES	ACETYLENE	0.07	0.00
11	12260-07	12/06/85	6.00	EA	0955-0080	GASES	OXYGEN, 251 CU. FT. CYL.	17.34	0.00

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WHSE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
11	12494-03	01/10/86	2.00	FT	2400-0130	STL, H/R, FLAT BAR, ABR&PAIN	3/8" X 6"	3.20	0.00
14	11826-01	10/04/85	48.00	FT	1950-0070	ROUND BAR, STNLS 304	5/8"	108.48	0.00
15	20987-11	09/12/85	1.00	EA	1350-0170	LUBRICANTS	LANE UNLOCK	4.60	0.00
15	20987-12	09/12/85	4.00	EA	0300-0040	COMPOUND, CAULKING	DOW SILICONE #732 WHITE	15.96	0.00
15	20987-15	09/12/85	2.00	EA	0020-0035	ADHESIVES	BARGE CEMENT 8 OZ	2.10	0.00
15	20987-16	09/12/85	6.00	FT	2590-0040	THREAD STOCK, NC, PLTD	3/8" X 36"	1.44	0.00
15	21031-01	09/19/85	15.00	FT	2650-0020	TUBING, POLYETHYLENE	6MIL X 12"LAYFLAT, FIRE RE	1.80	0.00
15	21031-02	09/19/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.18	0.00
15	21031-07	09/19/85	1.00	EA	1105-0100	GSKT, PRE-CUT, RED RUB, NAVY	1/8" X 3" X 6 5/8"	1.31	0.00
15	21031-08	09/19/85	2.00	EA	1090-0250	GSKT, PRE-CUT, BLK RUB, C. I.	1/8" X 3" X 7 1/2" C. I.	2.48	0.00
15	21031-12	09/19/85	6.00	LB	0720-0070	ELECTRODE, WELDING, STEEL	1/8" #6011	4.20	0.00
15	21031-13	09/19/85	10.00	LFT	0040-0030	ASBESTOS	1/16" X 40" NON-BESTOS	52.40	0.00
15	21031-15	09/19/85	1.00	EA	1620-0030	PAINT	WHITE, GLOSS, SPRAY	1.51	0.00
15	21031-16	09/19/85	3.00	EA	2760-0020	VALVE, BALL, 125#SCRD BRASS	3/8"	12.27	0.00
15	21040-05	09/20/85	3.00	EA	1430-0330	NIPPLE, PIPE, STD BRASS	3/8" X 6"	6.72	0.00
15	21040-06	09/20/85	4.00	OZ	1870-0060	ROD, BRAZING	1/16" SIL FOSS, 15% SILVER	5.92	0.00
15	21043-03	09/20/85	3.00	EA	1820-0030	REDUCER, BELL, STD BRASS	3/8" X 1/4"	2.70	0.00
15	21043-04	09/20/85	3.00	LB	0720-0010	ELECTRODE, WELDING, STEEL	3/32" #6010	1.26	0.00
15	21043-07	09/20/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21043-08	09/20/85	4.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	8.84	0.00
15	21043-09	09/20/85	4.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	6.28	0.00
15	21043-10	09/20/85	6.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	8.40	0.00
15	21043-11	09/20/85	30.00	LFT	2650-0010	TUBING, POLYETHYLENE	6 MIL X 25" LAY FLAT	5.70	0.00
15	21043-13	09/20/85	1.00	LB	0475-0010	DUXSEAL	1# PACKAGE	1.27	0.00
15	21043-15	09/20/85	5.00	LFT	1690-0010	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	1.25	0.00
15	21043-16	09/20/85	1.00	EA	0230-0030	CEMENT	90# PRE-MIX CONCRETE	2.91	0.00
15	21052-01	09/23/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21052-09	09/23/85	6.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	19.02	0.00
15	21052-10	09/23/85	10.00	LFT	1690-0010	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	2.50	0.00
15	21052-11	09/23/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21053-02	09/23/85	40.00	FT	2650-0020	TUBING, POLYETHYLENE	6MIL X 12"LAYFLAT, FIRE RE	3.60	0.00
15	21053-03	09/23/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21053-04	09/23/85	5.00	EA	0870-0030	FLARE NUT, SHORT	1/4" #41FS-4	1.80	0.00
15	21053-05	09/23/85	1.00	EA	2810-0030	WIRE	19 GA. MECHANICS, 5# ROLL	4.67	0.00
15	21053-06	09/23/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21053-07	09/23/85	40.00	LFT	2650-0010	TUBING, POLYETHYLENE	6 MIL X 25" LAY FLAT	7.60	0.00
15	21053-08	09/23/85	2.00	EA	0230-0030	CEMENT	90# PRE-MIX CONCRETE	5.82	0.00
15	21052-15	09/23/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21052-16	09/23/85	7.00	LFT	1690-0010	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	1.75	0.00
15	21058-02	09/24/85	25.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	16.25	0.00
15	21058-03	09/24/85	11.00	EA	2510-0040	TEE, PIPE, STD BRASS	1/2"	15.95	0.00
15	21058-04	09/24/85	24.00	LFT	2840-0030	WOOD, TEMPLATE	1/4" X 6"	8.16	0.00
15	21058-05	09/24/85	1.00	EA	1090-0220	GSKT, PRE-CUT, BLK RUB, C. I.	1/8" X 1 1/2" X 5"	0.48	0.00
15	21058-06	09/24/85	1.00	EA	1720-0030	PLUG, PIPE, STD BLK	3/8"	0.22	0.00
15	21058-07	09/24/85	5.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	7.85	0.00
15	21058-08	09/24/85	5.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	11.05	0.00
15	21058-09	09/24/85	12.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	6.48	0.00
15	21058-10	09/24/85	1.00	EA	0200-0050	CAP, PIPE, STD BRASS	3/4"	1.10	0.00

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JOB# 7500 NAME: U.S.S. DULUTH PAGE 515

ITEM: 0000 - 9999 WHSE: 00 - 99

-	WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
1										
2	15	21058-11	09/24/85	2.00	EA	2900-0020	WHSE SUPPLIES, MISC.	BAG, BURLAP, 12" X 18"	0.72	0.00
2	15	21058-12	09/24/85	4.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	12.68	0.00
2	15	21058-13	09/24/85	1.00	EA	0390-0030	COUPLING, PIPE, STD BRASS	3/8	0.81	0.00
2	15	21058-15	09/24/85	125.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	81.25	0.00
2	15	21058-16	09/24/85	3.00	LB	0720-0070	ELECTRODE, WELDING, STEEL	1/8" #6011	2.10	0.00
2	15	21064-02	09/24/85	2.00	EA	2900-0042	WHSE SUPPLIES, MISC.	BROOM, WHISK	9.96	0.00
2	15	21064-03	09/24/85	2.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	7.38	0.00
2	15	21064-04	09/24/85	1.00	EA	2480-0040	FITTING, SWAGE LOC	# B-600-1-4	1.80	0.00
2	15	21064-07	09/24/85	8.00	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	9.12	0.00
2	15	21064-08	09/24/85	8.00	EA	2480-0060	FITTING, SWAGE LOC	# B-600-1-8	26.32	0.00
2	15	21064-09	09/24/85	1.00	EA	0200-0050	CAP, PIPE, STD BRASS	3/4"	1.10	0.00
2	15	21064-10	09/24/85	1.00	EA	1730-0030	PLUG, PIPE, STD BRASS	3/8"	0.54	0.00
2	15	21064-11	09/24/85	1.00	EA	1730-0070	PLUG, PIPE, STD BRASS	1 1/4"	2.80	0.00
2	15	21064-12	09/24/85	1.00	EA	0390-0040	COUPLING, PIPE, STD BRASS	1/2"	1.04	0.00
2	15	21073-06	09/25/85	1.00	EA	1730-0020	PLUG, PIPE, STD BRASS	1/4"	0.57	0.00
2	15	21073-07	09/25/85	1.00	EA	0470-0020	DYE, PENETRANT	CLEANER, #DR-60, STEP 2	2.67	0.00
2	15	21073-13	09/25/85	1.00	EA	2810-0030	WIRE	19 GA. MECHANICS, 5# ROLL	4.67	0.00
2	15	21073-15	09/25/85	4.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	2.68	0.00
2	15	21073-16	09/25/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
2	15	21081-03	09/26/85	10.00	EA	2760-0070	VALVE, BALL, 125#SCRD BRASS	1 1/2"	170.60	0.00
2	15	21081-04	09/26/85	2.00	EA	2900-0046	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 1"#54-01	0.70	0.00
2	15	21081-05	09/26/85	2.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	1.08	0.00
2	15	21081-06	09/26/85	2.00	EA	1430-0400	NIPPLE, PIPE, STD BRASS	1/2" X 4"	3.78	0.00
2	15	21081-07	09/26/85	3.00	EA	3334-0003	TEE, SB	1/2"	6.60	0.00
2	15	21081-08	09/26/85	3.00	EA	3330-0003	ELBOW, 90*, SB	1/2"	4.80	0.00
2	15	21081-09	09/26/85	1.00	EA	1820-0210	REDUCER, BELL, STD BRASS	1 1/2" X 3/4"	6.24	0.00
2	15	21081-10	09/26/85	1.00	EA	1430-0760	NIPPLE, PIPE, STD BRASS	1 1/2" X CLOSE	3.41	0.00
2	15	21081-11	09/26/85	1.00	EA	1430-0550	NIPPLE, PIPE, STD BRASS	3/4" X 6"	4.00	0.00
2	15	21081-12	09/26/85	1.00	EA	1430-0530	NIPPLE, PIPE, STD BRASS	3/4" X 5"	3.12	0.00
2	15	21081-13	09/26/85	1.00	EA	1430-0450	NIPPLE, PIPE, STD BRASS	3/4" X CLOSE	1.06	0.00
2	15	21081-15	09/26/85	1.00	EA	2710-0050	UNION, STD BRASS	3/4"	4.43	0.00
2	15	21092-03	09/26/85	1.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	2.65	0.00
2	15	21092-04	09/26/85	1.00	EA	0550-0070	ELBOW, 90*, STD BRASS	1 1/4"	4.21	0.00
2	15	21092-05	09/26/85	2.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	7.38	0.00
2	15	21092-06	09/26/85	6.00	EA	2900-0056	WHSE SUPPLIES, MISC.	DUSTER, 9", OSBORN #322	33.12	0.00
2	15	21092-07	09/26/85	12.00	EA	2900-0042	WHSE SUPPLIES, MISC.	BROOM, WHISK	59.76	0.00
2	15	21092-08	09/26/85	3.00	EA	1620-0020	PAINT	BLACK, GLOSS, SPRAY	4.53	0.00
2	15	21092-02	09/26/85	1.00	EA	1430-0760	NIPPLE, PIPE, STD BRASS	1 1/2" X CLOSE	3.41	0.00
2	15	21092-09	09/26/85	2.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	1.08	0.00
2	15	21092-10	09/26/85	2.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	3.14	0.00
2	15	21092-11	09/26/85	2.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	4.42	0.00
2	15	21092-12	09/26/85	3.00	EA	2900-0041	WHSE SUPPLIES, MISC.	BROOM, WAREHOUSE	22.89	0.00
2	15	21092-13	09/26/85	4.00	EA	2900-0055	WHSE SUPPLIES, MISC.	DUST PAN #6, STEEL	13.04	0.00
2	15	21092-15	09/26/85	4.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	6.28	0.00
2	15	21092-16	09/26/85	4.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	8.84	0.00
2	15	21096-01	09/27/85	2.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	7.38	0.00
2	15	21096-02	09/27/85	4.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	2.68	0.00
2	15	21096-03	09/27/85	3.00	EA	1420-0870	NIPPLE, PIPE, STD BLK	2" X CLOSE	1.53	0.00

JOB# 7500 NAME: U. S. S. DULUTH PAGE 516

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21096-04	09/27/85	50.00	EA	0690-0030	ELECTRODE, CARBON ARC	5/16"	12.00	0.00
15	21096-05	09/27/85	6.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	3.24	0.00
15	21096-07	09/27/85	6.00	EA	2900-0046	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 1"#54-01	2.10	0.00
15	21096-08	09/27/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21096-09	09/27/85	4.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	14.76	0.00
15	21096-10	09/27/85	4.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	2.68	0.00
15	21096-11	09/27/85	4.00	EA	3337-0006	FLANGE, COM'L., SB	3"	204.00	0.00
15	21096-12	09/27/85	1.00	EA	0390-0030	COUPLING, PIPE, STD BRASS	3/8	0.81	0.00
15	21096-13	09/27/85	2.00	EA	0560-0070	ELBOW, 90*, STD GALV	1 1/4"	2.56	0.00
15	21096-15	09/27/85	1.00	EA	1440-0690	NIPPLE, PIPE, STD GALV	1 1/4" X 3" STD	0.49	0.00
15	21096-16	09/27/85	1.00	EA	1440-0750	NIPPLE, PIPE, STD GALV	1 1/4" X 6" STD	0.82	0.00
15	21098-01	09/27/85	3.00	EA	1820-0060	REDUCER, BELL, STD BRASS	1/2" X 3/8"	3.36	0.00
15	21098-02	09/27/85	1.00	EA	0200-0040	CAP, PIPE, STD BRASS	1/2"	0.83	0.00
15	21098-03	09/27/85	3.00	EA	1430-0230	NIPPLE, PIPE, STD BRASS	3/8" X CLOSE	2.16	0.00
15	21098-04	09/27/85	3.00	EA	0120-0060	BUSHING, STD BRASS	1/2" X 3/8"	1.98	0.00
15	21098-05	09/27/85	3.00	EA	0550-0040	ELBOW, 90*, STD BRASS	1/2"	3.72	0.00
15	21098-06	09/27/85	1.00	EA	0130-0230	BUSHING, STD GALV	1 1/2" X 3/4	1.05	0.00
15	21098-07	09/27/85	1.00	EA	0560-0080	ELBOW, 90*, STD GALV	1 1/2"	1.90	0.00
15	21098-08	09/27/85	1.00	EA	2520-0080	TEE, PIPE, STD GALV	1 1/2"	2.47	0.00
15	21098-09	09/27/85	1.00	EA	1440-0460	NIPPLE, PIPE, STD GALV	3/4" X 1 1/2" STD	0.29	0.00
15	21098-10	09/27/85	3.00	EA	1100-0230	GASKET, PRE-CUT, RED RUBBER	1/8" X 3" X 7 1/2"	2.82	0.00
15	21098-13	09/27/85	23.00	LB	1160-0040	GASKET, SHT, BLK RUBBER, C. I	1/8" X 48"	31.51	0.00
15	21098-15	09/27/85	2.00	EA	3333-0004	UNION, SB	3/4"	22.40	0.00
15	21098-16	09/27/85	4.00	EA	3337-0007	FLANGE, COM'L., SB	3-1/2"	230.00	0.00
15	21100-01	09/28/85	4.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	8.84	0.00
15	21100-02	09/28/85	4.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	6.28	0.00
15	21100-03	09/28/85	8.00	EA	2900-0070	WHSE SUPPLIES, MISC.	LGT. MAHOG. WOOD PATCH, 4 OZ	10.32	0.00
15	21100-04	09/28/85	2.00	EA	1100-0240	GASKET, PRE-CUT, RED RUBBER	1/8" X 3 1/2" X 8 1/2"	1.84	0.00
15	21100-05	09/28/85	8.00-	EA	2900-0070	WHSE SUPPLIES, MISC.	LGT. MAHOG. WOOD PATCH, 4 OZ	10.32-	0.00
15	21100-06	09/28/85	8.00	EA	2490-0070	TAPE	MASKING, 3/4" #CP-83	3.52	0.00
15	21101-05	09/28/85	2.00	EA	1080-0240	GASKET, PRE-CUT, #7021	1/8" X 3 1/2" X 8 1/2"	3.02	0.00
15	21101-06	09/28/85	4.00-	EA	3337-0006	FLANGE, COM'L., SB	3"	204.00-	0.00
15	21101-07	09/28/85	4.00-	EA	1100-0230	GASKET, PRE-CUT, RED RUBBER	1/8" X 3" X 7 1/2"	3.76-	0.00
15	21101-08	09/28/85	1.00	EA	1085-0100	GSKT, PRE-CUT, #7021, NAVY	1/8" X 3" X 6 5/8"	1.36	0.00
15	21101-15	09/28/85	1.00	EA	1440-0660	NIPPLE, PIPE, STD GALV	1 1/4" X CLOSE, STD	0.41	0.00
15	21101-16	09/28/85	1.00	EA	1440-0690	NIPPLE, PIPE, STD GALV	1 1/4" X 3" STD	0.49	0.00
15	21103-01	09/28/85	1.00	EA	0560-0070	ELBOW, 90*, STD GALV	1 1/4"	1.28	0.00
15	21103-02	09/28/85	1.00	EA	1820-0030	REDUCER, BELL, STD BRASS	3/8" X 1/4"	0.90	0.00
15	21103-03	09/28/85	3.00	OZ	1870-0060	ROD, BRAZING	1/16" SIL FOSS, 15% SILVER	4.44	0.00
15	21103-05	09/28/85	75.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	48.75	0.00
15	21103-06	09/28/85	3.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	11.07	0.00
15	21103-07	09/28/85	3.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	2.01	0.00
15	21103-09	09/28/85	1.00	EA	1430-0810	NIPPLE, PIPE, STD BRASS	1 1/2" X 4"	6.59	0.00
15	21103-10	09/28/85	1.00	EA	1430-0710	NIPPLE, PIPE, STD BRASS	1 1/4" X 4"	5.10	0.00
15	21103-11	09/28/85	1.00	EA	1430-0850	NIPPLE, PIPE, STD BRASS	1 1/2" X 6"	8.91	0.00
15	21103-12	09/28/85	1.00	EA	1820-0230	REDUCER, BELL, STD BRASS	1 1/2" X 1 1/4"	1.67	0.00
15	21103-13	09/28/85	1.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	2.65	0.00
15	21103-15	09/28/85	1.00	EA	1430-0760	NIPPLE, PIPE, STD BRASS	1 1/2" X CLOSE	3.41	0.00

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21103-16	09/28/85	1.00	EA	0390-0070	COUPLING, PIPE, STD BRASS	1 1/4"	3.31	0.00
15	21104-01	09/30/21	1.00	EA	0390-0080	COUPLING, PIPE, STD BRASS	1 1/2"	4.51	0.00
15	21104-02	09/30/21	1.00	QT	0310-0060	COMPOUND, THREAD	JC 30 TEFLON	3.18	0.00
15	21104-06	09/30/21	8.00	OZ	1870-0060	ROD, BRAZING	1/16" SIL FOSS, 15% SILVER	11.84	0.00
15	21104-07	09/30/21	3.00	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	3.42	0.00
15	21104-08	09/30/21	2.00	EA	2480-0060	FITTING, SWAGE LOC	# B-600-1-8	6.58	0.00
15	21104-09	09/30/21	10.00	FT	2640-0050	TUBING, COPPER, DRY SEAL	3/8" X .030	3.10	0.00
15	21104-10	09/30/21	1.00	QT	0310-0060	COMPOUND, THREAD	JC 30 TEFLON	3.18	0.00
15	21104-16	09/30/21	2.00	LFT	0040-0030	ASBESTOS	1/16" X 40" NON-BESTOS	10.48	0.00
15	21107-01	09/30/85	1.00	EA	1250-0020	HASPS, HINGES &BOLTS	3 1/2"SFTY HASP#SC929-ZN	1.12	0.00
15	21107-02	09/30/85	3.00	PR	1250-0050	HASPS, HINGES &BOLTS	4" STRAP HINGE #SC922-ZN	7.68	0.00
15	21107-03	09/30/85	2.00	EA	3332-0003	COUPLING, SB	1/2"	2.80	0.00
15	21107-04	09/30/85	3.00	EA	3330-0003	ELBOW, 90*, SB	1/2"	4.80	0.00
15	21107-05	09/30/85	1.00	EA	2730-0030	UNION, 3M#, SCRD, F/S	3/8"	5.04	0.00
15	21107-06	09/30/85	1.00	EA	2730-0070	UNION, 3M#, SCRD, F/S	1 1/4"	10.70	0.00
15	21107-07	09/30/85	1.00	EA	0550-0080	ELBOW, 90*, STD BRASS	1 1/2	5.31	0.00
15	21107-08	09/30/85	1.00	EA	1430-0760	NIPPLE, PIPE, STD BRASS	1 1/2" X CLOSE	3.41	0.00
15	21107-09	09/30/85	1.00	EA	1820-0230	REDUCER, BELL, STD BRASS	1 1/2" X 1 1/4"	1.67	0.00
15	21107-11	09/30/85	1.00	EA	2810-0020	WIRE	16 GA. MECHANICS, 5# ROLL	4.85	0.00
15	21107-15	09/30/85	1.00	EA	2850-0030	ZINC	LANE 16 OZ AEROSOL ZINKY	6.97	0.00
15	21108-09	09/30/85	2.00-	EA	2480-0060	FITTING, SWAGE LOC	# B-600-1-8	6.58-	0.00
15	21108-10	09/30/85	3.00-	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	3.42-	0.00
15	21108-11	09/30/85	2.00-	EA	3330-0003	ELBOW, 90*, SB	1/2"	3.20-	0.00
15	21108-12	09/30/85	2.00-	EA	3332-0003	COUPLING, SB	1/2"	2.80-	0.00
15	21108-13	09/30/85	1.00	EA	1440-0710	NIPPLE, PIPE, STD GALV	1 1/4" X 4, STD	0.62	0.00
15	21109-02	09/30/85	10.00-	FT	2640-0050	TUBING, COPPER, DRY SEAL	3/8" X .030	3.10-	0.00
15	21109-03	09/30/85	48.00	OZ	1870-0095	ROD, BRAZING	1/8" SQ. SILVER FOSS 15%	72.00	0.00
15	21109-07	09/30/85	120.00	EA	1320-0030	LAMPS, INCANDESCENT	100 WATT MED BASE #100ARS	138.00	0.00
15	21109-09	09/30/85	5.00	EA	0390-0040	COUPLING, PIPE, STD BRASS	1/2"	5.20	0.00
15	21109-10	09/30/85	9.00	EA	2760-0020	VALVE, BALL, 125#SCRD BRASS	3/8"	36.81	0.00
15	21109-11	09/30/85	2.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	1.08	0.00
15	21109-12	09/30/85	2.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	3.14	0.00
15	21109-13	09/30/85	18.00	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	20.52	0.00
15	21109-15	09/30/85	4.00	EA	2480-0110	FITTING, SWAGE LOC	#B-600-3	24.20	0.00
15	21111-01	09/30/85	1.00	EA	2710-0030	UNION, STD BRASS	3/8"	2.69	0.00
15	21111-02	09/30/85	1.00	EA	1730-0030	PLUG, PIPE, STD BRASS	3/8"	0.54	0.00
15	21111-03	09/30/85	10.00	EA	2900-0170	WHSE SUPPLIES, MISC.	STEEL WOOL, "3", COARSE	1.20	0.00
15	21111-04	09/30/85	4.00	OZ	1870-0060	ROD, BRAZING	1/16" SIL FOSS, 15% SILVER	5.92	0.00
15	21111-07	09/30/85	1.00	EA	2760-0040	VALVE, BALL, 125#SCRD BRASS	3/4"	6.51	0.00
15	21111-08	09/30/85	8.00	OZ	1870-0090	ROD, BRAZING	1/8"X.050 SIL FOSS 15%, FL	11.60	0.00
15	21111-09	09/30/85	1.00	EA	1430-0550	NIPPLE, PIPE, STD BRASS	3/4" X 6"	4.00	0.00
15	21111-10	09/30/85	1.00	EA	1420-0650	NIPPLE, PIPE, STD BLK	1" X 6"	0.60	0.00
15	21111-11	09/30/85	4.00	EA	2480-0060	FITTING, SWAGE LOC	# B-600-1-8	13.16	0.00
15	21111-12	09/30/85	1.00	EA	0200-0020	CAP, PIPE, STD BRASS	1/4"	0.63	0.00
15	21112-04	09/30/85	1.00	EA	2480-0080	FITTING, SWAGE LOC	#B-600-6	2.64	0.00
15	21112-05	09/30/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21112-08	09/30/85	3.00	FT	2590-0020	THREAD STOCK, NC, PLTD	1/4" X 36"	0.39	0.00
15	21112-09	09/30/85	1.00	EA	1430-0690	NIPPLE, PIPE, STD BRASS	1 1/4" X 3"	4.05	0.00

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JOB# 7500 NAME: U. S. S. DULUTH PAGE 518

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WHSE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21112-13	09/30/85	6.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	8.40	0.00
15	21113-01	10/01/85	1.00	EA	0390-0040	COUPLING, PIPE, STD BRASS	1/2"	1.04	0.00
15	21113-02	10/01/85	1.00	EA	0390-0020	COUPLING, PIPE, STD BRASS	1/4"	0.84	0.00
15	21113-03	10/01/85	1.00	EA	2480-0060	FITTING, SWAGE LOC	# B-600-1-8	3.29	0.00
15	21113-04	10/01/85	1.00	EA	2480-0040	FITTING, SWAGE LOC	# B-600-1-4	1.80	0.00
15	21113-06	10/01/85	1.00	EA	0550-0040	ELBOW, 90*, STD BRASS	1/2"	1.24	0.00
15	21113-07	10/01/85	1.00	EA	1430-0350	NIPPLE, PIPE, STD BRASS	1/2" X 1 1/2"	0.81	0.00
15	21113-08	10/01/85	1.00	EA	1430-0340	NIPPLE, PIPE, STD BRASS	1/2" X CLOSE	0.76	0.00
15	21113-09	10/01/85	100.00	LFT	1690-0010	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	25.00	0.00
15	21113-10	10/01/85	1.00	EA	1450-0720	NIPPLE, PIPE, X-HVY BLK	1 1/4" X 4 1/2"	0.70	0.00
15	21113-13	10/01/85	100.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	65.00	0.00
15	21115-01	10/01/85	2.00	EA	2510-0080	TEE, PIPE, STD BRASS	1 1/2"	11.60	0.00
15	21115-02	10/01/85	2.00	EA	0120-0220	BUSHING, STD BRASS	1 1/2" X 1/2"	4.22	0.00
15	21115-03	10/01/85	2.00	EA	0120-0050	BUSHING, STD BRASS	1/2" X 1/4"	1.32	0.00
15	21115-04	10/01/85	1.00	EA	2460-0070	STRAINER, Y, 200#SCRD BRASS	1 1/2"	64.00	0.00
15	21115-05	10/01/85	2.00	EA	2790-0070	VALVE, GLOBE, 200#SCRD BRAS	1 1/2"	91.88	0.00
15	21115-07	10/01/85	1.00	EA	1450-0790	NIPPLE, PIPE, X-HVY BLK	1 1/2" X 3"	0.81	0.00
15	21115-11	10/01/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21115-12	10/01/85	3.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	6.75	0.00
15	21115-13	10/01/85	1.00	EA	1430-0470	NIPPLE, PIPE, STD BRASS	3/4" X 2"	1.11	0.00
15	21115-15	10/01/85	1.00	EA	0390-0050	COUPLING, PIPE, STD BRASS	3/4"	1.40	0.00
15	21116-01	10/01/85	5.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	18.45	0.00
15	21116-02	10/01/85	2.00	FT	2640-0050	TUBING, COPPER, DRY SEAL	3/8" X .030	0.62	0.00
15	21116-13	10/01/85	2.00	EA	1430-0810	NIPPLE, PIPE, STD BRASS	1 1/2" X 4"	13.18	0.00
15	21116-15	10/01/85	2.00	EA	1430-0790	NIPPLE, PIPE, STD BRASS	1 1/2" X 3"	9.00	0.00
15	21116-16	10/01/85	4.00	EA	1430-0770	NIPPLE, PIPE, STD BRASS	1 1/2" X 2"	13.40	0.00
15	21119-04	10/01/85	3.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	1.62	0.00
15	21119-05	10/01/85	3.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	4.71	0.00
15	21119-06	10/01/85	3.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	6.63	0.00
15	21119-13	10/01/85	1.00	EA	1100-0240	GASKET, PRE-CUT, RED RUBBER	1/8" X 3 1/2" X 8 1/2"	0.92	0.00
15	21121-12	10/01/85	1.00	EA	1420-0650	NIPPLE, PIPE, STD BLK	1" X 6"	0.60	0.00
15	21121-13	10/01/85	1.00	EA	3332-0004	COUPLING, SB	3/4"	1.90	0.00
15	21121-15	10/01/85	1.00	EA	1240-0040	HANGER, PIPE, DOUBLE LEG	3/4"	5.09	0.00
15	21122-01	10/01/85	1.00	EA	0120-0090	BUSHING, STD BRASS	3/4" X 3/8"	0.94	0.00
15	21122-02	10/01/85	1.00	EA	2710-0030	UNION, STD BRASS	3/8"	2.69	0.00
15	21122-03	10/01/85	1.00	EA	1430-0230	NIPPLE, PIPE, STD BRASS	3/8" X CLOSE	0.72	0.00
15	21122-04	10/01/85	1.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	2.25	0.00
15	21122-05	10/01/85	1.00	EA	3333-0004	UNION, SB	3/4"	11.20	0.00
15	21122-12	10/01/85	3.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	6.75	0.00
15	21122-13	10/01/85	2.00	EA	1240-0040	HANGER, PIPE, DOUBLE LEG	3/4"	10.18	0.00
15	21122-16	10/01/85	70.00	LFT	2650-0010	TUBING, POLYETHYLENE	6 MIL X 25" LAY FLAT	13.30	0.00
15	21124-01	10/01/85	1.00	EA	0020-0035	ADHESIVES	BARGE CEMENT 8 OZ	1.05	0.00
15	21125-02	10/01/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21124-03	10/02/85	8.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	12.56	0.00
15	21124-11	10/02/85	1.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	1.40	0.00
15	21124-12	10/02/85	1.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	2.25	0.00
15	21124-15	10/02/85	6.00	EA	1620-0020	PAINT	BLACK, GLOSS, SPRAY	9.06	0.00
15	21124-16	10/02/85	6.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	19.02	0.00

JOB# 7500 NAME: U.S.S. DULUTH

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21125-10	10/01/85	3.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	11.07	0.00
15	21125-11	10/01/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21125-15	10/01/85	3.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	4.20	0.00
15	21125-16	10/01/85	8.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	17.68	0.00
15	21127-01	10/02/85	2.00	EA	2490-0070	TAPE	MASKING, 3/4" #CP-83	0.88	0.00
15	21127-02	10/02/85	2.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	2.80	0.00
15	21127-03	10/02/85	50.00	LB	0720-0020	ELECTRODE, WELDING, STEEL	1/8" #6010	26.00	0.00
15	21127-04	10/02/85	1.00	EA	2760-0030	VALVE, BALL, 125#SCRD BRASS	1/2"	4.13	0.00
15	21127-05	10/02/85	2.00	EA	1430-0340	NIPPLE, PIPE, STD BRASS	1/2" X CLOSE	1.52	0.00
15	21127-08	10/02/85	3.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	4.71	0.00
15	21127-09	10/02/85	3.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	6.63	0.00
15	21127-12	10/02/85	1.00	EA	2760-0040	VALVE, BALL, 125#SCRD BRASS	3/4"	6.51	0.00
15	21127-15	10/02/85	1.00	QT	0310-0060	COMPOUND, THREAD	JC 30 TEFLON	3.18	0.00
15	21129-01	10/02/85	1.00	EA	3333-0004	UNION, SB	3/4"	11.20	0.00
15	21129-03	10/02/85	6.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	3.24	0.00
15	21130-02	10/02/85	2.00	EA	1240-0040	HANGER, PIPE, DOUBLE LEG	3/4"	10.18	0.00
15	21130-03	10/02/85	75.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	48.75	0.00
15	21133-01	10/02/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21133-02	10/02/85	63.00	FT	1650-0040	PIPE, SCH-40, BLK, PE	3/4"	40.95	0.00
15	21133-04	10/02/85	6.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	8.40	0.00
15	21133-06	10/02/85	2.00	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	2.28	0.00
15	21133-13	10/02/85	184.00	FT	0240-0070	CHAIN	1/4" PROOF COIL LINK, PLTD	138.00	0.00
15	21133-15	10/02/85	6.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	8.40	0.00
15	21134-09	10/03/85	1.00	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	1.14	0.00
15	21134-10	10/03/85	1.00	EA	0550-0070	ELBOW, 90*, STD BRASS	1 1/4"	4.21	0.00
15	21134-11	10/03/85	1.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	2.65	0.00
15	21134-12	10/03/85	1.00	EA	2710-0030	UNION, STD BRASS	3/8"	2.69	0.00
15	21134-13	10/03/85	1.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	2.25	0.00
15	21134-15	10/03/85	1.00	EA	1430-0490	NIPPLE, PIPE, STD BRASS	3/4" X 3"	1.69	0.00
15	21135-15	10/03/85	1.00	EA	1430-0710	NIPPLE, PIPE, STD BRASS	1 1/4" X 4"	5.10	0.00
15	21135-16	10/03/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21137-01	10/03/85	2.00	EA	2900-0020	WHSE SUPPLIES, MISC.	BAG, BURLAP, 12" X 18"	0.72	0.00
15	21137-05	10/03/85	1.00	OZ	1870-0060	ROD, BRAZING	1/16" SIL FOSS, 15% SILVER	1.48	0.00
15	21137-09	10/03/85	1.00	EA	0550-0070	ELBOW, 90*, STD BRASS	1 1/4"	4.21	0.00
15	21137-10	10/03/85	1.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	2.65	0.00
15	21137-11	10/03/85	1.00	EA	2480-0020	FITTING, SWAGE LOC	# B-400-1-6	1.88	0.00
15	21138-02	10/03/85	2.00	EA	1080-0070	GASKET, PRE-CUT, #7021	1/16" X 2 1/2" X 7"	1.26	0.00
15	21138-06	10/03/85	1.00	EA	0200-0030	CAP, PIPE, STD BRASS	3/8"	0.93	0.00
15	21138-07	10/03/85	1.00	EA	1730-0080	PLUG, PIPE, STD BRASS	1 1/2"	2.50	0.00
15	21138-08	10/03/85	1.00	EA	1350-0170	LUBRICANTS	LANE UNLOCK	4.60	0.00
15	21138-10	10/03/85	2.00	EA	0255-0005	CLAMP, PIPE CS BLK	1/2" GRINNEL #212	1.12	0.00
15	21138-11	10/03/85	1.00	EA	1240-0040	HANGER, PIPE, DOUBLE LEG	3/4"	5.09	0.00
15	21138-12	10/03/85	75.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	48.75	0.00
15	21138-13	10/03/85	3.00	EA	0270-0030	CLEANERS	SPIC & SPAN, 54 OZ BOX	11.22	0.00
15	21138-15	10/03/85	3.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	2.28	0.00
15	21138-16	10/03/85	2.00	EA	1430-0830	NIPPLE, PIPE, STD BRASS	1 1/2" X 5"	14.00	0.00
15	21141-01	10/04/85	100.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	65.00	0.00
15	21141-02	10/04/85	6.00	EA	2900-0046	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 1"#54-01	2.10	0.00

JOB# 7500 NAME: U. S. S. DULUTH PAGE 520

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21141-03	10/04/85	6.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	3.24	0.00
15	21141-04	10/04/85	6.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	9.42	0.00
15	21141-05	10/04/85	6.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	13.26	0.00
15	21141-10	10/04/85	2.00	EA	3333-0003	UNION, SB	1/2"	14.20	0.00
15	21141-11	10/04/85	2.00	EA	2710-0040	UNION, STD BRASS	1/2"	6.40	0.00
15	21141-12	10/04/85	2.00	EA	1430-0440	NIPPLE, PIPE, STD BRASS	1/2" X 6"	5.72	0.00
15	21141-13	10/04/85	4.00	EA	1430-0360	NIPPLE, PIPE, STD BRASS	1/2" X 2"	4.36	0.00
15	21141-15	10/04/85	4.00	EA	1430-0350	NIPPLE, PIPE, STD BRASS	1/2" X 1 1/2"	3.24	0.00
15	21141-16	10/04/85	2.00	EA	1430-0370	NIPPLE, PIPE, STD BRASS	1/2" X 2 1/2"	2.58	0.00
15	21143-02	10/04/85	2.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	5.30	0.00
15	21143-03	10/04/85	2.00	EA	0550-0070	ELBOW, 90*, STD BRASS	1 1/4"	8.42	0.00
15	21143-04	10/04/85	2.00	EA	1430-0730	NIPPLE, PIPE, STD BRASS	1 1/4" X 5"	9.10	0.00
15	21143-05	10/04/85	3.00	EA	2480-0020	FITTING, SWAGE LOC	# B-400-1-6	5.64	0.00
15	21143-06	10/04/85	1.00	EA	2480-0100	FITTING, SWAGE LOC	#B-400-3	5.40	0.00
15	21143-07	10/04/85	2.00	EA	2730-0070	UNION, 3M#, SCRD, F/S	1 1/4"	21.40	0.00
15	21143-08	10/04/85	1.00	EA	2850-0030	ZINC	LANE 16 OZ AEROSOL ZINKY	6.97	0.00
15	21143-12	10/04/85	1.00	EA	2480-0090	FITTING, SWAGE LOC	#B-810-6	4.30	0.00
15	21144-12	10/04/85	2.00	EA	0560-0070	ELBOW, 90*, STD GALV	1 1/4"	2.62	0.00
15	21144-13	10/04/85	6.00	EA	3333-0003	UNION, SB	1/2"	42.60	0.00
15	21144-15	10/04/85	4.00	EA	2900-0046	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 1"#54-01	1.40	0.00
15	21144-16	10/04/85	4.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	2.16	0.00
15	21148-01	10/04/85	4.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	6.28	0.00
15	21148-02	10/04/85	4.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	8.84	0.00
15	21148-03	10/04/85	3.00	LB	0720-0070	ELECTRODE, WELDING, STEEL	1/8" #6011	2.10	0.00
15	21148-04	10/04/85	65.50	FT	0240-0070	CHAIN	1/4" PROOF COIL LINK, PLTD	49.13	0.00
15	21148-05	10/04/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.17	0.00
15	21148-15	10/04/85	42.00	FT	0240-0070	CHAIN	1/4" PROOF COIL LINK, PLTD	31.50	0.00
15	21148-16	10/04/85	14.00	LB	1170-0030	GASKET, SHEET, RED RUBBER	1/8" X 48"	14.98	0.00
15	21150-02	10/04/85	375.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	243.75	0.00
15	21150-03	10/04/85	6.00	EA	0300-0040	COMPOUND, CAULKING	DOW SILICONE #732 WHITE	23.82	0.00
15	21150-04	10/04/85	4.00	EA	3333-0003	UNION, SB	1/2"	28.40	0.00
15	21150-08	10/04/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.09	0.00
15	21150-09	10/04/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21151-01	10/07/85	6.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	13.26	0.00
15	21151-02	10/07/85	3.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	6.75	0.00
15	21151-03	10/07/85	1.00	EA	3333-0004	UNION, SB	3/4"	11.20	0.00
15	21151-04	10/07/85	1.00	EA	2710-0050	UNION, STD BRASS	3/4"	4.43	0.00
15	21151-05	10/07/85	1.00	EA	1430-0450	NIPPLE, PIPE, STD BRASS	3/4" X CLOSE	1.06	0.00
15	21151-06	10/07/85	2.00	EA	1430-0550	NIPPLE, PIPE, STD BRASS	3/4" X 6"	8.00	0.00
15	21151-07	10/07/85	1.00	EA	2480-0090	FITTING, SWAGE LOC	#B-810-6	4.30	0.00
15	21151-08	10/07/85	2.00	EA	1240-0040	HANGER, PIPE, DOUBLE LEG	3/4"	10.18	0.00
15	21151-15	10/07/85	2.00	EA	1350-0170	LUBRICANTS	LANE UNLOCK	9.20	0.00
15	21151-16	10/07/85	4.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	3.04	0.00
15	21153-02	10/07/85	4.00	EA	2480-0080	FITTING, SWAGE LOC	#B-600-6	10.56	0.00
15	21153-03	10/07/85	4.00	EA	2480-0040	FITTING, SWAGE LOC	# B-600-1-4	7.20	0.00
15	21153-04	10/07/85	4.00	EA	0390-0020	COUPLING, PIPE, STD BRASS	1/4"	3.36	0.00
15	21153-05	10/07/85	1.00	EA	2760-0030	VALVE, BALL, 125#SCRD BRASS	1/2"	4.13	0.00
15	21153-06	10/07/85	6.00	FT	2640-0050	TUBING, COPPER, DRY SEAL	3/8" X .030	1.92	0.00

JOB# 7500 NAME: U. S. S. DULUTH PAGE 521

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21153-10	10/07/85	3.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	9.27	0.00
15	21153-11	10/07/85	2.00	EA	2490-0070	TAPE	MASKING, 3/4" #CP-83	0.88	0.00
15	21154-04	10/07/85	1.00	EA	2490-0070	TAPE	MASKING, 3/4" #CP-83	0.44	0.00
15	21155-06	10/07/85	4.00	EA	2480-0050	FITTING, SWAGE LOC	# B-600-1-6	4.56	0.00
15	21155-07	10/07/85	2.00	EA	2480-0110	FITTING, SWAGE LOC	#B-600-3	12.10	0.00
15	21155-11	10/07/85	2.00	EA	0490-0070	ELBOW, 45*, STD BRASS	1 1/4"	6.68	0.00
15	21155-12	10/07/85	2.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	4.98	0.00
15	21158-07	10/08/52	1.00	EA	3330-0004	ELBOW, 90*, SB	3/4"	2.25	0.00
15	21158-08	10/08/52	3.00	EA	3330-0006	ELBOW, 90*, SB	1-1/4"	16.65	0.00
15	21158-09	10/08/52	1.00	EA	3333-0006	UNION, SB	1-1/4"	23.20	0.00
15	21158-10	10/08/52	2.00	EA	1430-0710	NIPPLE, PIPE, STD BRASS	1 1/4" X 4"	10.20	0.00
15	21158-11	10/08/52	1.00	EA	1430-0750	NIPPLE, PIPE, STD BRASS	1 1/4" X 6"	6.71	0.00
15	21158-13	10/08/52	2.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	4.98	0.00
15	21158-15	10/07/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21162-02	10/07/85	4.00	EA	2760-0040	VALVE, BALL, 125#SCRD BRASS	3/4"	26.04	0.00
15	21162-04	10/07/85	6.00	EA	2900-0046	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 1"#54-01	2.10	0.00
15	21162-05	10/07/85	6.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	3.24	0.00
15	21162-06	10/07/85	6.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	9.42	0.00
15	21162-07	10/07/85	6.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	13.26	0.00
15	21162-08	10/07/85	2.00	EA	1350-0180	LUBRICANTS	PETROLEUM JELLY, 3.25 OZ	2.58	0.00
15	21162-09	10/07/85	1.00	EA	1420-0360	NIPPLE, PIPE, STD BLK	1/2" X 2"	0.16	0.00
15	21162-10	10/07/85	1.00	EA	2730-0040	UNION, 3M#, SCRD, F/S	1/2"	3.75	0.00
15	21162-11	10/07/85	1.00	EA	1810-0100	REDUCER, BELL, STD BLK	3/4" X 1/2"	0.56	0.00
15	21162-12	10/07/85	1.00	EA	2730-0070	UNION, 3M#, SCRD, F/S	1 1/4"	10.70	0.00
15	21164-12	10/08/85	1.00	EA	3335-0013	BUSHING, SB	1-1/2" X 1-1/4	6.45	0.00
15	21164-13	10/08/85	1.00	EA	3330-0007	ELBOW, 90*, SB	1-1/2"	7.60	0.00
15	21166-12	10/08/85	250.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	162.50	0.00
15	21168-06	10/08/85	2.00	EA	2900-0048	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 3"#54-03	3.14	0.00
15	21168-07	10/08/85	2.00	EA	2900-0047	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 2"#54-02	1.08	0.00
15	21168-12	10/08/85	1.00	EA	1820-0060	REDUCER, BELL, STD BRASS	1/2" X 3/8"	1.12	0.00
15	21171-08	10/08/85	5.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	3.80	0.00
15	21171-09	10/08/85	4.00	EA	2900-0042	WHSE SUPPLIES, MISC.	BROOM, WHISK	19.92	0.00
15	21171-10	10/08/85	1.00	EA	2060-0020	SEALER, GASKET	FORM-A-GASKET #2-B, .3 OZ	1.51	0.00
15	21171-12	10/08/85	1.00	EA	2760-0040	VALVE, BALL, 125#SCRD BRASS	3/4"	6.51	0.00
15	21171-13	10/08/85	1.00	EA	1350-0180	LUBRICANTS	PETROLEUM JELLY, 3.25 OZ	1.29	0.00
15	21171-15	10/08/85	1.00	EA	1820-0090	REDUCER, BELL, STD BRASS	3/4" X 3/8"	1.64	0.00
15	21171-16	10/08/85	1.00	EA	1430-0450	NIPPLE, PIPE, STD BRASS	3/4" X CLOSE	1.06	0.00
15	21174-01	10/08/85	1.00	EA	1430-0230	NIPPLE, PIPE, STD BRASS	3/8" X CLOSE	0.72	0.00
15	21174-06	10/08/85	1.00	EA	1420-0430	NIPPLE, PIPE, STD BLK	1/2" X 5 1/2"	0.26	0.00
15	21174-07	10/08/85	1.00	EA	1810-0100	REDUCER, BELL, STD BLK	3/4" X 1/2"	0.56	0.00
15	21174-08	10/08/85	1.00	EA	0380-0040	COUPLING, PIPE, STD BLK	1/2"	0.58	0.00
15	21174-09	10/08/85	5.00	EA	2900-0049	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	11.05	0.00
15	21174-12	10/08/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.09	0.00
15	21177-06	10/08/85	1.00	EA	0390-0070	COUPLING, PIPE, STD BRASS	1 1/4"	3.31	0.00
15	21177-07	10/08/85	1.00	EA	1820-0230	REDUCER, BELL, STD BRASS	1 1/2" X 1 1/4"	1.67	0.00
15	21177-08	10/08/85	1.00	EA	1430-0660	NIPPLE, PIPE, STD BRASS	1 1/4" X CLOSE	2.49	0.00
15	21177-16	10/08/85	3.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	9.27	0.00
15	21179-01	10/09/85	3.00	EA	2490-0080	TAPE	MASKING, 2" #CP-83	4.20	0.00

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WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
15	21179-08	10/09/85	250.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	162.50	0.00
15	21179-09	10/09/85	20.00	EA	2900-0170	WHSE SUPPLIES, MISC.	STEEL WOOL, "3", COARSE	2.40	0.00
15	21180-10	10/09/85	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	21180-11	10/09/85	6.00	EA	2900-0041	WHSE SUPPLIES, MISC.	BROOM, WAREHOUSE	45.78	0.00
15	21183-12	10/09/85	1.00	EA	0270-0050	CLEANERS	COMET CLEANSER, 10 OZ	0.76	0.00
15	21202-05	10/11/85	1.00	EA	1720-0020	PLUG, PIPE, STD BLK	1/4"	0.42	0.00
15	21211-16	10/11/85	30.00	LFT	0040-0030	ASBESTOS	1/16" X 40" NON-BESTOS	162.00	0.00
15	21215-04	10/11/85	50.00	EA	0690-0010	ELECTRODE, CARBON ARC	3/16"	11.00	0.00
15	21228-10	10/15/85	48.00	FT	0240-0070	CHAIN	1/4" PROOF COIL LINK, PLTD	36.00	0.00
15	21232-16	10/15/85	3.00	FT	0240-0070	CHAIN	1/4" PROOF COIL LINK, PLTD	2.25	0.00
15	21240-07	10/15/85	35.00	LB	1160-0040	GASKET, SHT, BLK RUBBER, C. I	1/8" X 48"	47.95	0.00
15	21240-08	10/15/85	1.00	EA	0020-0035	ADHESIVES	BARGE CEMENT 8 OZ	1.05	0.00
15	21244-11	10/15/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.00	0.00
15	21245-01	10/16/85	1.00	EA	0020-0035	ADHESIVES	BARGE CEMENT 8 OZ	1.05	0.00
15	21256-06	10/16/85	2.00	FT	0240-0010	CHAIN	#14 BLU-KROME, SINGLE JACK	0.30	0.00
15	21258-07	10/16/85	1.00	OZ	1870-0100	ROD, BRAZING	1/16" SILVER, CAD FREE	7.82	0.00
15	21260-02	10/17/85	150.00	FT	2650-0020	TUBING, POLYETHYLENE	6MIL X 12"LAYFLAT, FIRE RE	13.50	0.00
15	21278-06	10/18/85	2.00	EA	1810-0250	REDUCER, BELL, STD BLK	2" X 3/4"	3.78	0.00
15	21278-07	10/18/85	2.00	EA	1420-0880	NIPPLE, PIPE, STD BLK	2" X 2 1/2"	1.42	0.00
15	21290-11	10/21/85	12.00	EA	1620-0080	PAINT	SILVER, BRIGHT, SPRAY	18.12	0.00
15	21290-12	10/21/85	12.00	EA	2850-0030	ZINC	LANE 16 OZ AEROSOL ZINKY	83.88	0.00
15	21289-13	10/21/85	24.00	EA	1320-0060	LAMPS, INCANDESCENT	500 WATT MOG BASE #500RS	89.28	0.00
15	21289-15	10/21/85	48.00	EA	1320-0030	LAMPS, INCANDESCENT	100 WATT MED BASE #100ARS	55.20	0.00
15	21296-05	10/22/85	4.00	EA	0750-0090	FLANGE, 150#, SCRD STL	3"	40.88	0.00
15	21296-06	10/22/85	4.00	EA	1080-0230	GASKET, PRE-CUT, #7021	1/8" X 3" X 7 1/2"	8.28	0.00
15	21341-01	10/24/85	1.00	EA	0230-0020	CEMENT	94# BAG, TYPE 1, OREGON POR	6.17	0.00
15	21341-11	10/24/85	2.00	EA	1080-0250	GASKET, PRE-CUT, #7021	1/8" X 4" X 9"	5.54	0.00
15	21342-11	10/25/85	1.00	PR	1250-0100	HASPS, HINGES &BOLTS	3"X3"BUTT HINGE#SC8040-ZN	3.87	0.00
15	21386-08	10/31/85	21.00	EA	1100-0250	GASKET, PRE-CUT, RED RUBBER	1/8" X 4" X 9"	20.37	0.00
15	21390-06	10/31/85	3.00	LB	2810-0120	WIRE	11 GA BLACK ANNEALED	1.23	0.00
15	21390-16	10/31/85	19.00	EA	1100-0250	GASKET, PRE-CUT, RED RUBBER	1/8" X 4" X 9"	18.43	0.00
15	21393-11	10/31/85	24.00	EA	1320-0060	LAMPS, INCANDESCENT	500 WATT MOG BASE #500RS	89.28	0.00
15	21403-09	11/01/85	16.00-	EA	1100-0250	GASKET, PRE-CUT, RED RUBBER	1/8" X 4" X 9"	15.52-	0.00
15	21415-01	11/04/85	1.00	EA	2900-0020	WHSE SUPPLIES, MISC.	BAG, BURLAP, 12" X 18"	0.36	0.00
15	21422-12	11/05/85	25.00	EA	1100-0250	GASKET, PRE-CUT, RED RUBBER	1/8" X 4" X 9"	24.25	0.00
15	21424-16	11/05/85	3.00	LFT	0040-0030	ASBESTOS	1/16" X 40" NON-BESTOS	17.22	0.00
15	21428-01	11/05/85	16.00	LB	1170-0030	GASKET, SHEET, RED RUBBER	1/8" X 48"	15.20	0.00
15	21428-02	11/05/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.00	0.00
15	21447-04	11/07/85	1.00	EA	1810-0210	REDUCER, BELL, STD BLK	1 1/2" X 3/4"	1.41	0.00
15	21461-10	11/08/85	1.00	EA	0610-0040	ELBOW, 90*, 3M#, SCRD, F/S	1/2"	2.73	0.00
15	21461-15	11/08/85	1.00	EA	1450-0350	NIPPLE, PIPE, X-HVY BLK	1/2" X 1 1/2"	0.21	0.00
15	21461-16	11/08/85	2.00	EA	1080-0160	GASKET, PRE-CUT, #7021	1/8" X 1/2" X 3 1/2"	0.80	0.00
15	21467-06	11/08/85	1.00	EA	2490-0030	TAPE	DUCT, 2" #PC-620	3.00	0.00
15	21596-11	11/21/85	1.00	EA	2730-0070	UNION, 3M#, SCRD, F/S	1 1/4"	11.01	0.00
15	21596-13	11/21/85	1.00	EA	0110-0190	BUSHING, STD BLK	1 1/4" X 3/4"	0.64	0.00
15	21612-08	11/26/85	1.00	EA	3333-0005	UNION, SB	1"	15.35	0.00
15	21691-01	12/03/85	1.00	EA	1350-0010	LUBRICANTS	OIL, CUTTING, LANE, ALL PURP	5.19	0.00
15	21704-02	12/03/85	1.00	EA	2730-0060	UNION, 3M#, SCRD, F/S	1"	6.84	0.00

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-	WH SE	DOC. NBR.	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	*----------DESCRIPTION----------*		COST AMOUNT	VALUE
2	15	21704-03	12/03/85	1.00	EA	1760-0060	PLUG, PIPE, 3M#, SCRD, F/S	1"	1.31	0.00
2	15	21723-04	12/04/85	1.00	EA	0300-0010	COMPOUND, CAULKING	BUTYLOID, #1230-100, WHITE	1.45	0.00
2	15	21743-15	12/05/85	1.00	EA	2730-0070	UNION, 3M#, SCRD, F/S	1 1/4"	11.24	0.00
2	15	21743-16	12/05/85	1.00	EA	2730-0060	UNION, 3M#, SCRD, F/S	1"	6.84	0.00
2	15	21745-02	12/05/85	1.00	EA	1760-0060	PLUG, PIPE, 3M#, SCRD, F/S	1"	1.31	0.00
2	15	21745-03	12/05/85	1.00	EA	1760-0060	PLUG, PIPE, 3M#, SCRD, F/S	1"	1.31	0.00
2	15	21745-03	12/05/85	1.00-	EA	1760-0060	PLUG, PIPE, 3M#, SCRD, F/S	1"	1.31-	0.00
2	15	21745-03	12/05/85	1.00	EA	1760-0070	PLUG, PIPE, 3M#, SCRD, F/S	1 1/4"	1.98	0.00
2	15	21745-04	12/05/85	1.00	EA	1350-0150	LUBRICANTS	LANE NO-SEEZ LUBE	6.50	0.00
2	15	21772-12	12/09/85	1.00	EA	1100-0250	GASKET, PRE-CUT, RED RUBBER	1/8" X 4" X 9"	0.97	0.00
2	15	21776-12	12/09/85	1.00	EA	2730-0060	UNION, 3M#, SCRD, F/S	1"	6.84	0.00
2	15	21776-15	12/09/85	1.00	EA	2710-0080	UNION, STD BRASS	1 1/2"	10.03	0.00
2	15	21816-06	12/11/85	1.00	EA	2760-0040	VALVE, BALL, 125#SCRD BRASS	3/4"	6.51	0.00
2	15	21816-07	12/11/85	1.00	EA	1350-0150	LUBRICANTS	LANE NO-SEEZ LUBE	6.50	0.00
2	15	21816-08	12/11/85	1.00	EA	1430-0450	NIPPLE, PIPE, STD BRASS	3/4" X CLOSE	0.28	0.00
2	15	21840-01	12/13/85	2.00	EA	0410-0080	COUPLING, PIPE, 3M#SCRD, F/S	1 1/2"	11.38	0.00
2	15	21990-07	01/06/86	1.00	OZ	1870-0100	ROD, BRAZING	1/16" SILVER, CAD FREE	7.67	0.00
2	15	22007-15	01/06/86	4.00	OZ	1870-0090	ROD, BRAZING	1/8"X.050 SIL FOSS 15%, FL	5.48	0.00
2	15	22042-08	01/08/86	1.00	EA	1730-0050	PLUG, PIPE, STD BRASS	3/4"	0.99	0.00
2	15	22328-01	01/30/86	5.00	EA	1420-0770	NIPPLE, PIPE, STD BLK	1 1/2" X 2"	2.75	0.00
2	15	22328-02	01/30/86	8.00	EA	0110-0300	BUSHING, STD BLK	2" X 1 1/2"	8.16	0.00
2	15	22409-08	02/06/86	1.00	EA	2760-0010	VALVE, BALL, 125#SCRD BRASS	1/4"	4.09	0.00
2	15	22450-03	02/10/86	1.00	EA	2540-0100	TEE, PIPE, 3M# SW, F/S	2 1/2"	41.38	0.00
2	15	22450-04	02/10/86	1.00	EA	1450-0940	NIPPLE, PIPE, X-HVY BLK	2" X 6"	2.85	0.00
2	15	22450-05	02/10/86	1.00	EA	1450-0850	NIPPLE, PIPE, X-HVY BLK	1 1/2" X 6"	1.58	0.00
2	15	22450-11	02/10/86	1.00	EA	1420-1030	NIPPLE, PIPE, STD BLK	2 1/2" X 6"	2.50	0.00
2	15	22450-12	02/10/86	1.00	EA	2500-0100	TEE, PIPE, STD BLK	2 1/2"	5.15	0.00
2	15	22450-13	02/10/86	1.00	EA	0110-0330	BUSHING, STD BLK	2 1/2" X 1 1/2"	1.29	0.00
2	15	22450-15	02/10/86	1.00	EA	0110-0340	BUSHING, STD BLK	2 1/2" X 2"	1.18	0.00
2	15	22450-16	02/10/86	2.00	EA	1420-0880	NIPPLE, PIPE, STD BLK	2" X 2 1/2"	1.42	0.00
2	15	22451-10	02/10/86	1.00	EA	2460-0080	STRAINER, Y, 200#SCRD BRASS	2"	96.50	0.00
2	15	22451-11	02/10/86	1.00	EA	2760-0080	VALVE, BALL, 125#SCRD BRASS	2"	21.80	0.00
2	15	22462-12	02/11/86	1.00	EA	2480-0040	FITTING, SWAGE LOC	# B-600-1-4	1.87	0.00
2	15	22559-15	02/19/86	2.00	EA	2760-0040	VALVE, BALL, 125#SCRD BRASS	3/4"	13.02	0.00
2	15	22561-13	02/19/86	3.00	FT	2590-0030	THREAD STOCK, NC, PLTD	5/16" X 36"	0.63	0.00
2	15	22568-10	02/19/86	1.00	EA	0300-0050	COMPOUND, CAULKING	DOW SILICONE #732 CLEAR	3.76	0.00
2	15	22713-11	02/28/86	1.00	PR	1250-0100	HASPS, HINGES &BOLTS	3"X3"BUTT HINGE#SC8040-ZN	5.69	0.00
2	15	22911-01	03/12/86	1.00	EA	1700-0010	PLASTIC STEEL	RED HAND PASTE "A", 1 QT	10.51	0.00
2	15	22911-02	03/12/86	1.00	EA	1700-0020	PLASTIC STEEL	RED HAND PASTE "B", 1 QT	10.52	0.00
2	15	22946-16	03/14/86	1.00	EA	2480-0060	FITTING, SWAGE LOC	# B-600-1-8	3.29	0.00
2	15	22948-01	03/14/86	1.00	EA	1820-0100	REDUCER, BELL, STD BRASS	3/4" X 1/2"	1.64	0.00
2	15	23080-04	03/21/86	1.00	EA	1820-0100	REDUCER, BELL, STD BRASS	3/4" X 1/2"	1.64	0.00
2	15	23667-12	04/25/86	2.00	EA	2900-0050	WHSE SUPPLIES, MISC.	CLOBBER DRAIN SNAKE, 1 QT3	10.82	0.00
2	17	11745-01	09/30/85	6.00	FT	1920-0100	ROPE, WIRE	1/16" 7X7 C.R.E.S., STNLS	0.84	0.00
2	17	11750-01	09/25/85	10.00	EA	0260-0050	CLAMP, WIRE ROPE, GALV	3/4"	7.00	0.00
2	17	11803-02	10/03/85	18.00	EA	2090-0020	SHACKLE, ANCH, SCRW PIN, GAL	1/4"	20.70	0.00
2	17	11804-01	10/04/85	18.00	EA	2090-0020	SHACKLE, ANCH, SCRW PIN, GAL	1/4"	20.70	0.00
2	17	11892-01	10/10/85	6.00	EA	0260-0020	CLAMP, WIRE ROPE, GALV	3/8"	1.50	0.00

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WH SE	DOC. NBR	TRAN DATE	QUANTITY	UNIT MEAS	PART NBR	DESCRIPTION		COST AMOUNT	VALUE
17	11909-03	10/17/85	4.00	EA	2090-0020	SHACKLE, ANCH, SCRW PIN, GAL	1/4"	4.60	0.00
17	11909-04	10/17/85	6.00	FT	1920-0100	ROPE, WIRE	1/16" 7X7 C.R.E.S., STNLS	0.84	0.00
17	11909-05	10/17/85	6.00	EA	2090-0020	SHACKLE, ANCH, SCRW PIN, GAL	1/4"	6.90	0.00
17	11909-06	10/17/85	6.00	EA	0260-0020	CLAMP, WIRE ROPE, GALV	3/8"	1.50	0.00
17	11909-09	10/17/85	10.00	EA	2090-0020	SHACKLE, ANCH, SCRW PIN, GAL	1/4"	11.50	0.00
17	11909-10	10/17/85	1.00	EA	2670-0030	TURNBUCKLE, J & J, GALV	3/8" X 6"	5.70	0.00
17	11909-11	10/17/85	3.00	EA	2670-0040	TURNBUCKLE, J & J, GALV	1/2" X 6"	20.76	0.00
						ITEM 9912	TOTAL	11,473.76	0.00
15	21290-03	10/21/85	35.00	OZ	1870-0060	ROD, BRAZING	1/16" SIL FOSS, 15% SILVER	51.80	0.00
						ITEM 9913	TOTAL	51.80	0.00
01	12321-16	12/19/85	1.00	EA	2490-0120	TAPE	SCOTCH 33+, 3/4" X 66'	1.62	0.00
14	11958-06	10/24/85	12.00	FT	1960-0070	ROUND BAR, C/R	1/2"	3.60	0.00
15	21119-08	10/01/85	2.00	EA	2900-0055	WHSE SUPPLIES, MISC.	DUST PAN #6, STEEL	6.52	0.00
15	22368-07	02/04/86	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
15	22650-05	02/25/86	125.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	81.25	0.00
15	23118-10	03/24/86	25.00	LB	2810-0120	WIRE	11 GA BLACK ANNEALED	10.75	0.00
15	23600-16	04/21/86	50.00	LB	1780-0030	RAGS	S/S TEE KNIT WIPERS 25#	32.50	0.00
						ITEM 9921	TOTAL	168.74	0.00
15	21196-10	10/10/85	1.00	EA	1620-0040	PAINT	YELLOW, PASTEL, SPRAY	1.50	0.00
						ITEM 9922	TOTAL	1.50	0.00
01	11694-02	09/13/85	7.00	EA	0340-0010	CONNECTOR, EMT	1/2" T&B #5051	2.52	0.00
01	11694-03	09/13/85	6.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	19.44	0.00
01	11694-04	09/13/85	3.00	EA	0080-0010	BOX, HANDY	4"X4" RACO #230	3.42	0.00
01	11694-05	09/13/85	3.00	EA	0080-0030	BOX, HANDY	4"X4"2GANG DUP RECEPT CVR	1.77	0.00
01	11694-06	09/13/85	14.00	EA	0330-0090	CONDUIT	3/4" CONDUIT NAILS	1.26	0.00
01	11694-07	09/13/85	2.00	EA	2555-0070	TEST CLIPS & INSULATORS	MUELLER CLIP #63	1.10	0.00
01	11694-08	09/13/85	2.00	FT	2820-0020	WIRE, ELECTRICAL	#16 MTW STRANDED, BLACK	0.08	0.00
01	11694-09	09/13/85	2.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	0.44	0.00
01	11694-10	09/13/85	1.00	EA	0080-0050	BOX, HANDY	2"X4"BLANK CVR RACO #860	0.24	0.00
01	11694-11	09/13/85	30.00	FT	0330-0030	CONDUIT	1/2" EMT	4.80	0.00
01	11694-12	09/13/85	2.00	EA	0080-0010	BOX, HANDY	4"X4" RACO #230	2.28	0.00
01	11694-13	09/13/85	2.00	EA	0080-0030	BOX, HANDY	4"X4"2GANG DUP RECEPT CVR	1.18	0.00
01	11694-15	09/13/85	3.00	EA	0080-0040	BOX, HANDY	2"X4" RACO #660	1.98	0.00
01	11694-16	09/13/85	4.00	EA	0080-0060	BOX, HANDY	2"X4"RECEPT CVR RACO #864	0.88	0.00
01	11708-01	09/18/85	7.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	22.68	0.00
01	11708-02	09/18/85	12.00	EA	0330-0080	CONDUIT	1/2" CONDUIT NAILS	1.92	0.00
01	11708-03	09/18/85	3.00	EA	0080-0010	BOX, HANDY	4"X4" RACO #230	3.42	0.00
01	11708-04	09/18/85	3.00	EA	0080-0030	BOX, HANDY	4"X4"2GANG DUP RECEPT CVR	1.77	0.00
01	11708-05	09/18/85	6.00	EA	0450-0020	DEVICE, WIRING	BRYANT #5262 DOUBLE RECEP	19.44	0.00
01	11708-07	09/18/85	30.00	FT	0330-0030	CONDUIT	1/2" EMT	4.80	0.00

EXHIBIT "D"

SUPPORTING COST DATA AND RATIONALE

III. Other Costs

Other costs include additional Port of Portland crane useage, electricity useage and miscellaneous consumables such as fuel, oxygen, natural gas and miscellaneous shop issues.

A. Cranes

NMIW utilized P.O.P. cranes to accomplish additional work aboard the IX-502. The duration of work was approximately from 16 September 85 to 12 October 85. Although crane service varied from day to day depending upon demand, NMIW averaged 16 hours per day for 24 days. NMIW worked three shifts per day to accomplish the additional work to IX-502.

Cost: 16 hrs x 24 days = 384 hrs @ $67.50 = $25,920.00

B. Miscellaneous Costs

The additional costs for electricity, vehicle fuel, oxygen, natural gas and miscellaneous shop issues is valued at $2.00 per hour expended. These costs are for the majority billed by the P.O.P.

Cost: 6719 hrs @ $2.00 =	$13,438.00
Total of Other Costs =	$39,358.00
Cost Applicable to Mod A00002 =	($15,045.00)
Cost Applicable to Mod A00003 =	$24,313.00

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE	OF PAGES
M	1	2

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
A00003	85SEP25		

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion and Repair, USN, Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

EXHIBIT "E" - Page 1 of 5

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
5555 N. Channel Avenue
Portland, OR 97217

CODE FACILITY CODE

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00024-85-C-8506

10B. DATED (SEE ITEM 13) 85AUG19

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

BC 1761804.82QE 000 TKS73 0 N68342 2D OP2QE0 2QE00FGQ002A $192,000.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USS DULUTH (LPD-6)

1. The monetary limitation of Contract Line Item Number CLIN 0001AA (Messing and Berthing) is increased by the amount of $192,000.00 as follows:

DUPLICATE ORIGINAL
RECEIVED
NOV 16 19[illegible]

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
William H. Zayin II
President

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
E. HULSEY

15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)

15C. DATE SIGNED 11-05-85

16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)

16C. DATE SIGNED 11-05-85

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR129697

AMENDMENT/MODIFICATION CONTINUATION SHEET

AMENDMENT/MODIFICATION NUMBER ~~A00002~~ A00003

SOLICITATION/CONTRACT NUMBER N00024-85-C-8506

NAME OF SHIP USS DULUTH (LPD-6)

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Continued)

CLIN FY 85 - 0001AA Messing and Berthing

Target Cost	$174,545.00
Target Profit	$ 17,455.00
Target Price	$192,000.00

2. Contractor is to accomplish repairs in addition to those described in specification 992-11-002B Serial ~~100A~~ 2A Paragraph 3.13.5. The additional repairs are shown on Attachment (1).

3. The Contractor shall submit a price (cost and fee) proposal within thirty (30) days after receipt of this modification in accordance with Changes Clause I-I-52.

4. It is agreed that the above change will result in no adjustment to the delivery schedule.

IX-502 LIVING BARGE FOR USS DULUTH (LPD-6) CREW

Item No. 992-11-002B Ser 100A Paragraph 3.13.5

Item

(1) Place all heads in operating condition. Replace or repair as necessary "P" traps, faucets, valves, drains, shower heads and handles. Repair various leaks. Replace hot water recirculating pump in 2-28-4 including space seal. Clear various deck drains as required.

(2) Install meat slicer in main galley.

(3) Furnish & install baskets for deep fat fryers.

(4) Install tile & underlayment for main galley serving line & laundry.

(5) Repair two (2) dumbwaiters.

(6) Place in operation A/C system, reefers including machinery. Accomplish repairs & testing as directed by the Supervisor.

(7) Place in operation laundry & scullery equipment. Accomplish repairs and provide parts for main dishwasher, washer & dryer, and laundry presses. Remove existing and install GFE CPO dishwasher. Provide training for the crew.

(8) Install reefer in lieu of milk dispensers in 1st class mess.

(9) Scale & paint starboard forward and port forward crew berthing.

(10) Scale & paint port and starboard windlass resistor rooms.

(11) Remove all scuttlebutts third deck and below, and reinstall in upper areas.

(12) Install GFM shower curtains and hooks.

(13) Troubleshoot and correct deficiencies of main galley, officer's mess and CPO mess.

(14) Remove from vessel and overhaul garbage disposal motor.

(15) Cover all openings in duct work with pop rivet patches and connect disconnected ducts. Troubleshoot and repair as directed by the supervisor entire HVAC system including vent motors and controllers, solenoids, thermostats, J-boxes, reconnect various electrical leads, replace damaged cables. Renew duct work as required. Repair leaking steam coils and piping as necessary.

(16) Repair bad insulation as required in troop berthing.

NWMAR129699

Item

(17) Replace muffler an aerating compressor to CHT system.

(18) Install portable aluminum grating on port side main deck.

(19) Disconnect A/C generators from A/C switchboard.

(20) Repair transformer for lighting system circuit IS - 1L (3-28-2).

(21) Install CFM & GFM doors at locations throughout the vessel. Install knobs and locksets where missing.

(22) Extend CHT and flooding alarms to the quarterdeck.

(23) Furnish and install two (2) new temperature switches and cable for the meat room. Install metal step to entrance to prevent damage to heat tape.

(24) Furnish and install ladder turnbvuckles, chain and handrails, Repair various ladders as required.

(25) Furnish & install new display shelfing in ship's store.

(26) Furnish material and labor to change out reamining D.C. lighting to A.C.

(27) Provide new routing for air service to laundry by installing penetrations in lieu of routing through watertight doors and hatches.

(28) Furnish and install 220 VAC system on 01 level to provide power to xerox machine.

(29) Troubleshoot and repair D.C. power supply at aft switchboard due to voltage drop.

(30) Accomplish repairs to 2 1/2" potable water regulating valve on starboard side midship and 3" fireflushing reducing valve located at 2-22-1.

(31) Repair or replace CHT air blower in CHT pump room.

(32) Repair steam leak on 4" main line off header.

(33) Furnish and install drop hoods over deep fat fryers in CPO mess. Locate trip lever by door.

(34) Secure gratings in dry provision storeroom.

(35) Provide crane service as required to facilitate repairs.

Item

(36) Provide quick response repairs to the Barge (1X-502), when authorized by the Supervisor, not to exceed five thousand ($5,000.00) dollars of material and one hundred (100) mandays of labor. All repairs will be designated by the Supervisor. Contractor shall provide to the Supervisor supporting documentation, to include invoices and any other substantiating data.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE: M

PAGE 1 OF PAGES 2

2. AMENDMENT/MODIFICATION NO.: A00002

3. EFFECTIVE DATE: 85SEP24

4. REQUISITION/PURCHASE REQ. NO.:

5. PROJECT NO. (If applicable):

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion and Repair, USN, Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

EXHIBIT "F" - Page 1 of 3

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
5555 N. Channel Avenue
Portland, OR 97217

CODE FACILITY CODE

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00024-85-C-8506

10B. DATED (SEE ITEM 13) 85AUG19

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

BA 1751804.82QE 000 TKS73 0 N68342 2D OP2QE0 34200FGQ003A $250,000.00

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS, IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

XX Terms of the Contract

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USS DULUTH (LPD-6)

1. The monetary limitation of Contract Line Item Number CLIN 0001AA (Messing and Berthing) is increased by the amount of $250,000.00 as follows:

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print): William H Zavin Jr President

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print): Eugene Hulsey

15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)

15C. DATE SIGNED 24 Sep 85

16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)

16C. DATE SIGNED 9-24-85

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR129702

AMENDMENT/MODIFICATION CONTINUATION SHEET

AMENDMENT/MODIFICATION NUMBER A00002

SOLICITATION/CONTRACT NUMBER N00024-85-C-8506

NAME OF SHIP USS DULUTH (LPD-6)

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Continued)

CLIN FY85 - 0001AA Messing and Berthing

Target Cost	$227,273.00
Target Profit	$ 22,727.00
Target Price	$250,000.00

2. Contractor is to accomplish repairs in addition to those described in specification 992-11-002 Paragraph 3.13.4. The additional repairs are shown on Attachment (1).

3. The Contractor shall submit a price (cost and fee) proposal within thirty (30) days after receipt of this modification in accordance with Changes Clause I-1-52.

4. It is agreed that the above change will result in no adjustment to Clause H-27, Milestone event Crew Move Ashore.

5. It is agreed that the above change will result in no adjustment to the delivery schedule.

IX-502 LIVING BARGE FOR USS DULUTH (LPD-6) CREW
Item No. 992-11-001, Paragraph 3.13.4

1. Provide and install office furniture in number one office complex and include various electrical outlets as needed.

2. Provide and install miscellaneous recreation/lounge furniture and install in main deck forward lounge area. This is to include removal and installation of tile (and) deck is to be leveled.

3. Provide new saladbar and toaster. Install above items and the following GFM items: juice machine, microwave and crushed ice machine. Contractor to provide new counter and cabinets and electric and plumbing.

4. Replace false overhead in CO's stateroom including lights. Provide and install new desk chair and carpeting. Paint CO's cabin and office.

5. Provide and install shop's intercom systems.

6. Preserve outside of IX-502 where rust is present or where paint has been damaged.

7. Replace all outside lighting including fixture aboard IX-502.

8. Repair/replace insulation and lagging.

9. Miscellaneous electrical repairs.

10. Repair/upgrade entertainment system on Barge (IX-502).

Attachment (1)

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

REWRITE

SHIP USS	JOB ORDER NO.	SERIAL NO.
USS DULUTH (LPD-6)	8506	2A

COAR NO: 99-015

ITEM NO: 992-11-002

PCN:

PLANNER: Parker/Coates

TITLE: Services for Barracks Ship; Accomplish

SCOPE: Additional Repairs

1. Add the following subparagraphs to the specifications:

3.13.6 Install new CHT piping, hanger brackets and timbers that are missing and damaged.

3.13.6.1 Install new insulation on port and starboard CHT piping.

3.13.6.2 Accomplish the requirements of 009-32 to new and disturbed surfaces.

3.13.7 Remove all brass fire hose nozzles and provide and install plastic nozzles.

3.13.8 Repair all exterior expansion joints to original condition.

3.13.9 Inspect all locks for condition and adequate keys.

3.13.9.1 Remove all locks without keys

☐ Above work will be completed by current Job Order completion date of _____

☐ Above work will require Job Order completion date extension to _____.

TOTAL PRICE $ _____

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE _____ Signature _____ Date

CONTRACTOR NORTHWEST MARINE IRON WORKS CONTRACT NO. N00024-85-C-8506

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date 10/30/85	SUPERVISOR SHIP SURVEYOR Signature	Date 10/30/85

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature _____ Date _____

PRICE PROPOSAL
SUPSHIP SEATTLE 4265/1A (REV. 10-82)

(CONTINUATION SHEET)

REWRITE

SHIP	JOB ORDER NO	SERIAL NO
USS USS DULUTH (LPD-6)	8506	2A

3.13.10 Remove existing and install new, damaged deck tile and underlayment (approx. 800 sq. ft.)

3.13.11 Install and secure lockers in room 18 and C.P.O. quarters.

3.13.12 Repair and activate three safes.

3.13.13 Install and secure to the deck desks and furniture.

3.13.14 Install the following equipment in the C.P.O. galley;
2 (ea.) Coffee Makers
1 (ea.) Juice Maker
1 (ea.) Milk Dispenser
1 (ea.) Microwave Oven

3.13.15 Provide and install all new batteries to all emergency lanterns.

3.13.16 Install new speakers on "IMC" system that are missing or defective.

3.13.17 Repair D.C. vent controller 02-19-2 for proper operation.

3.13.18 Replace existing D.C. scuttlebutts with A.C.

3.13.18.1 Modify piping, wiring and foundation to suit installation.

3.13.19 Install the following new equipment in the wardroom galley;
Thermostat Dials on Oven
Faucets
Coffee Maker

REASONS: CR's 40, 108, 26, 285.

LEAD CRAFT PM

NMIW 9912
bl
ITEM NO: 992-11-002

SHIP: USS DULUTH (LPD-6)

COAR: 99-015

PCN: SWLIN 99211-A-9

PLANNER: CARR

1. SCOPE:

1.1. Title: Services for Barracks Ship; Accomplish

1.2. Location of Work: IX 502

2. REFERENCES:

a. Standard Items
b. 0901-LP-480-0002; NSTM, Piping Systems, July 1973, including Changes One through 8
c. P-5010-5 & 8, Manual of Naval Preventive Medicine

3. REQUIREMENTS:

3.1. Accomplish the requirements of 009-23 of 2.a.

3.2. Accomplish the following to the personnel barracks ship, to be used for berthing and messing facilities for the crew of USS DULUTH (LPD 6).

3.3. Connect and disconnect the systems specified in 3.4. for complete transfer of the personnel barracks ship to coincide with ship's movements, 6 movements required.

3.3.1. Provide mooring lines and moor the personnel barracks ship at locations designated by the SUPERVISOR. Install rat gaurds at all mooring line locations.

3.4. Provide and install the following services on a 24 hour basis on the personnel barracks ship for the entire contract period:

3.4.1. Gangways

3.4.2. Potable water

3.4.3. Steam

3.4.4. Electric power

3.4.5. CHT system

3.4.6. Telephones

3.4.7. Salt water

3.4.8. Compressed air

DOCUMENT TEST & INSPECTION PLAN

EXHIBIT "H"

NMIW 9912
ITEM NO: 992-11-002

NWMAR129707

3.5. Gangways:

3.5.1. Gangways and landing platforms between barracks ship and pier or ship at the quarterdeck.

3.5.1.1. Gangways and landing platforms shall be a minimum of 3 feet in width and designed and constructed to support a minimum load of 75 pounds per square foot.

3.5.1.2. Illuminate the entire length of gangways and adjacent areas with weathertight lights, shielded to prevent temporary blinding of personnel.

3.5.2. Provide one gangway and landing platform at the forward or after end of barracks ship. The gangway shall be marked for emergency use only.

3.5.3. Install safety nets under gangways and platforms.

3.5.3.1. Safety nets shall extend 6 feet on each side of gangways and platforms.

3.5.4. Maintain gangways free of debris and foreign matter.

3.5.5. Inclination of gangways shall not exceed 20 degrees.

CHECK POINT (Potable Water)

3.6. Potable water:

3.6.1. Supply and maintain potable water at a pressure of 80 PSI plus or minus 5 PSI.

3.6.1.1. The quality of potable water shall meet the requirements of the Public Health Service Drinking Water Standards of 1962, based on samples taken from the connection used to provide the water and shall be in accordance with 9480.40 of 2.b. and Chapter 5, Sections III and IV of 2.c.

3.6.1.2. Submit four legible copies of a report certifying water quality by a certified chemist, to the SUPERVISOR, within 24 hours after hook-up. The report shall be under company letterhead.

3.6.2. Potable water hoses shall be designated by label plates bearing the inscription "POTABLE WATER ONLY".

3.6.3. Chlorinate potable water hoses and connections with not less than 100 PPM chlorine solution for 1/2 hour, immediately prior to connecting.

3.6.4. Flush potable water hoses for a minimum of 60 seconds before connecting to the systems.

3.6.5. Apply sealing compounds conforming to Type I of MIL-A-46146 to connections.

3.6.6. Install a vacuum breaker/backflow preventer on the discharge side of the hose valve.

3.6.7. Connections between potable water supply systems and non-potable systems are prohibited.

3.7. Steam:

3.7.1. Supply and maintain 110 PSI plus or minus 10 PSI steam to ship's shore steam connections.

3.7.2. Install a steam pressure gauge and strainer at each shore steam connection.

3.7.3. Install an emergency shut-off valve in each steam supply line at dock side within 50 feet of the quarterdeck gangway.

3.7.4. Steam hoses shall conform to MIL-H-28596(A) for transferring steam from shore to vessel.

3.8. Electrical power:

3.8.1. Electrical power to be 800 amps, 440 volts A.C., 3 phase at the shore power connection.

3.8.2. Install safety devices at pier side capable of automatically maintaining service during power surges and equipped with circuit breakers to de-energize the electrical power during overloads.

3.8.3. Shore power cabling shall have a current carrying capacity equal to or exceeding the specified shore power current requirements.

3.8.4. Connect the shore power cabling to the barracks ship. Comply with the barracks ship polarity requirements.

3.8.5. Wrap shore power cables with protective covering at locations where chafing may occur and provide protective covering for cables that run across high traffic areas.

3.9. CHT system:

3.9.1. Provide daily disposal service to empty and dispose of 10,000 gallons effluent each day from barracks ship CHT holding tanks in accordance with local, state and federal regulations.

3.9.2. Sewage discharge shall be through the CHT deck risers using the barracks ship's pumps with hoses connected and routed to a receiving station on the pier.

3.10. Telephones:

3.10.1. Provide 24 hour daily telephone service. Install 5 telephones in locations designed by the SUPERVISOR.

3.10.2. Connect each telephone on a separate line not connected with any other ship or extension in the contractor's facility. Telephone services is for local area only.

3.11. Salt water:

3.11.1. Maintain a pressure of 125 PSI plus or minus 10 PSI, 2500 GPM, of salt water pressure for barracks ship fire main with the connection between pier side and barracks ship coupling capable of withstanding 200 PSI.

3.12. Compressed air:

3.12.1. Maintain a pressure of 100 PSI plus or minus 10 PSI of compressed air for barracks ship air system with the connection between pier side and barracks ship coupling.

3.13. Systems and equipment checkout:

CHECK POINT (Proper Operation)

3.13.1. Light off and check the following systems and associated equipment for proper operation on the barracks ship:

3.13.1.1. Firemain piping

3.13.1.2. Flushing systems

3.13.1.3. Supply and exhaust ventilation systems

3.13.1.4. Air conditioning systems

3.13.1.5. Galley equipment

3.13.1.6. Steam lines

3.13.1.7. Plumbing drain lines

3.13.1.8. Public address system

3.13.1.9. Refrigeration and freezer plants and spaces

3.13.1.10. Ice machines

3.13.1.11. Drinking fountains

3.13.1.12. Potable water systems

3.13.1.13. Lighting systems

3.13.1.14. Heating systems

3.13.1.15. Bakery equipment

3.13.1.16. Vegetable preparation room equipment

3.13.1.17. Coffee urns

3.13.1.18. Garbage disposal equipment

3.13.1.19. Scullery equipment

3.13.1.20. Laundry equipment

3.13.1.21. Eductor systems

3.13.2. Light off and checking of systems specified shall be accomplished 10 days prior to ship's force moving aboard.

3.13.3. Submit four legible copies of light off test results and a list of recommended repairs to the SUPERVISOR within 48 hours after test completion.

3.13.4. Accomplish repairs specified in 3.13.3., when authorized by the SUPERVISOR. Twenty thousand dollars for material and 400 mandays of labor are authorized as designated by the SUPERVISOR.

3.13.4.1. Submit four legible copies of a list of manhours and material installed for repairs specified in 3.13.4., with documenting invoices or other substantiating data, to the SUPERVISOR.

3.14. Fumigation:

3.14.1. Fumigate the barracks ship using Vikane gas fumigant or equal in accordance with local, state and federal regulations.

C 3.14.2. Accomplish the requirements of 009-09 of 2.a. for fumigation of the barracks ships using Vikane fumigant or equal in accordance with local, state and federal regulations.

C 3.14.3. DELETE

3.15. Cleaning and sterilization:

CHECK POINT (Cleaning)

3.15.1. Clean all messing, berthing, office, storeroom, refrigeration/air conditioning and connecting spaces of the berthing barge including bulkheads, overheads, decks, ventilation, piping, equipment and furniture free of dirt and debris.

3.15.2. Clean the existing tile deck covering removing existing wax coating.

3.15.2.1. Coat with a slip resistant floor wax and machine polish.

3.15.3. Dry clean curtains and drapes.

3.15.4. Steam clean carpeting.

3.15.5. Clean the entire exterior surfaces of the barracks ship from the water line up to and including the top of the mast, including decks, bulkheads, overheads, ventilation, piping, equipment and foundations free of dirt and debris.

3.15.6. Cleaning shall be accomplished 4 days prior to ship's force moving aboard or when directed by the SUPERVISOR.

3.15.7. Clean and sterilize the officer's pantry and galley, crew's galley and scullery, walk-in refers and freezers, dishwashers, food preparation counters, steam kettles, ice cube making machines, milk dispensers, salad bars, bake ovens and associated cooling and messing gear equipment of the barracks ship.

3.15.7.1. Cleaning and sterilization shall be accomplished 48 hours prior to ship's force moving aboard.

3.15.8. All engine rooms, auxiliary generator rooms, boiler rooms, steering gear rooms and shaft alleys shall be dusted down and swept/mopped clean and all foreign material (including water) removed from the spaces.

3.15.9. Set and install 30 rat traps aboard the barracks ship.

3.15.9.1. Locate traps in remote locations as designated by the SUPERVISOR which will preclude injury of personnel.

3.15.9.2. Dispose of trapped rodents daily.

3.15.10. Turn over to the SUPERVISOR the rat traps upon completion of contract.

3.16. Permanently install a meter in the potable water, salt water, steam, electric, CHT and compressed air systems to register the usage of services on the barracks ship.

3.17. Remove temporary services on contract completion date.

3.18. Accomplish the requirements of 009-32 of 2.a. for new and disturbed surfaces to match surrounding areas.

SHIP: USS DULUTH (LPD-6)

ITEM NO: 992-11-002

4. NOTES:

4.1. Barracks ships: length 328 feet, beam 50 feet, draft 11 feet.

5. GOVERNMENT FURNISHED MATERIAL (GFM):

5.1. None

USS DULUTH (LPD-6)
JOB NO. 7500

CHANGE MEMO

Spec No. 9912-E

This Change Refers To Original Spec Item 9912 **Date** 11/19/85

TITLE: SERVICES FOR BARRACKS SHIP: ACCOMPLISH

Please add the following subparagraphs to the specification:

3.13.5.1 Place all heads in operating condition. Replace or repair as necessary "P" traps, faucets, valves, drains, shower heads and handles. Repair various leaks. Replace hot water recirculatin pump in 2-28-4 including space seal. Clear various deck drains as required.

3.13.5.2 Install meat slicer in main galley.

3.13.5.3 Furnish & install baskets for deep fat fryers.

3.13.5.4 Install tile & underlayment for main galley serving line & laundry.

3.13.5.5 Repair two(2) dumbwaiters.

3.13.5.6 Place in operation A/C system, reefers including machinery. Accomplish repairs & testing as directed by the Supervisor.

3.13.5.7 Place in operation laundry & scullery equipment. Accomplish repairs and provide parts for main dishwasher, washer & dryer, and laundry presses. Remove existing and install GFE CPO dishwasher. Provide training for the crew.

3.13.5.8 Install reefer in lieu of milk dispensers in 1st class mess.

3.13.5.9 Scale & paint starboard forward and port forward crew berthing.

3.13.5.10 Scale & paint port and starboard windlass resistor rooms.

3.13.5.11 Remove all scuttlebutts third deck and below, and reinstall in upper areas.

3.13.5.12 Install GFM shower curtains and hooks.

3.13.5.13 Troubleshoot and correct deficiencies of main galley, officer's mess and CPO mess.

3.13.5.14 Remove from vessel and overhaul garbage disposal motor.

DOCUMENT TEST & INSPECTION PLAN

EXHIBIT "I"

Spec No. 9912-E

NWMAR129714

3.13.5.15 Cover all openings in duct work with pop rivet patches and connect disconnected ducts. Troubleshoot and repair as directed by the supervisor entire HVAC system including vent motors and controllers, solenoids, thermostats, J-boxes, reconnect various electrical leads, replace damaged cables. Renew duct work as required. Repair leaking steam coils and piping as necessary.

3.13.5.16 Repair bad insulation as required in troop berthing.

3.13.5.17 Replace muffler an aerating compressor to CHT system.

3.13.5.18 Install portable aluminum grating on port side main deck.

3.13.5.19 Disconnect A/C generators from A/C switchboard.

3.13.5.20 Repair transformer for lighting system circuit IS - IL (3-28-2).

3.13.5.21 Install CFM & GFM doors at locations throughout the vessel. Install knobs and locksets where missing.

3.13.5.22 Extend CHT and flooding alarms to the quarterdeck.

3.13.5.23 Furnish and install two (2) new temperature switches and cable for the meat room. Install metal step to entrance to prevent damage to heat tape.

3.13.5.24 Furnish and install ladder turnbvuckles, chain and handrails. Repair various ladders as required.

3.13.5.25 Furnish & install new display shelving in ship's store.

3.13.5.26 Furnish material and labor to change out remaining D.C. lighting to A.C.

3.13.5.27 Provide new routing for air service to laundry by installing penetrations in lieu of routing through watertight doors and hatches.

3.13.5.28 Furnish and install 220 VAC system on 01 level to provide power to xerox machine.

3.13.5.29 Troubleshoot and repair D.C. power supply at aft switchboard due to voltage drop.

3.13.5.30 Accomplish repairs to 2-1/2" potable water regulating valve on starboard side midship and 3" fireflushing reducing valve located at 2-22-1.

USS DULUTH (LPD-6)
JOB NO. 7500

CHANGE MEMO

Spec No. 9912-E

This Change Refers To Original Spec Item 9912 **Date** 11/19/85

3.13.5.31 Repair or replace CHT air blower in CHT pump room.

3.13.5.32 Repair steam leak on 4" main line off header.

3.13.5.33 Furnish and install drop hoods over deep fat fryers in CPO mess. Locate trip lever by door.

3.13.5.34 Secure gratings in dry provision storeroom.

3.13.5.35 Provide crane service as required to facilitate repairs.

DOCUMENT TEST & INSPECTION PLAN

EXHIBIT "I"

Spec No. 9912-E

NWMAR129716

USS DULUTH (LPD-6)
JOB NO. 7500

CHANGE MEMO

Spec No. 9912-F

This Change Refers To Original Spec Item 9912 **Date** 11/8/85

3.13.5.36 Provide quick response repairs to the Barge (1X-502), when authorized by the Supervisor, not to exceed five thousand ($5,000.00) dollars of material and one hundred (100) mandays of labor. All repairs will be designated by the Supervisor. Contractor shall provide to the Supervisor supporting documentation, to include invoices and any other substantiating data.

EXHIBIT "J"

EXHIBIT "K"

SCOPE OF WORK

Scope of work is detailed in Exhibits "E", "F" and "G".

PREPARATION AND IMPLEMENTATION

All costs associated with preparing, estimating and implementing this emergent and supplemental work are included in the costs for contract modification A00003.

IMPACT OF WORK ON EXISTING CONTRACT

This work had no impact on the DULUTH itself. However, the degree of work NMIW accomplished on IX-502 in a very short period of time hampered NMIW's ability to perform the requirements of original contract specification 992-11-002. The escalated costs expended to perform specification work of item 992-11-002 are not addressed in contract modification A00003. Only the additional work NMIW performed on IX-502 to provide "liveable" quarters for the crew of USS DULUTH are considered in the cost of mod A00003.

COST PRESENTATION

All costs for contract modification A00003 are presented as actual cost returns.

EXHIBIT "L"

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
SEATTLE, WASHINGTON 98115-5003

IN REPLY REFER TO:
DD-985/LPD-6
Ser 413-1743
22 Apr 86

From: Supervisor of Shipbuilding, Conversion and Repair, USN, Seattle, WA
To: Northwest Marine Iron Works, P.O. Box 3109, Portland, OR 97208

Subj: Forward Pricing Rates, USS CUSHING (DD-985) Contract N00024-85-C-8523
USS DULUTH (LPD-6) Contract N00024-85-C-8506, Effective 17 Apr 86

Ref: (a) NMIW Proposed Labor Rates, January 1986
(b) DCAA Audit Report No. 7261-6P230010-001 of 5 Mar 86
(c) Negotiations between E. Hulsey (Supship Seattle) and Mark McGirr (NMIW) on 17 Apr 86

1. Based on the labor rates proposed in ref (a), and in accordance with the recommendations in ref (b), forward pricing rates were negotiated by ref (c).

2. Based upon the negotiated agreement, the following approved rates are exclusive of profit and supersede the Interim Forward Pricing Rates forwarded by Supship Seattle ltr Ser 7703 of 25 Sep 85:

	Straight Time Per Hour	Overtime Per Hour
Direct Labor	$19.62	$26.74
Manuf. Overhead	5.68	5.68
G & A	2.26	2.26
Total	$27.56	$34.68
FCCOM	$0.69	$0.69

Port of Portland Use and Rehabilitation Fee - 10% of Labor and Material Cost (No Fee)

cc: McMurry
Nugent
McGirr
Erb
Nicholson
Zavin
Newell
Lind
DULUTH file
CUSHING file

E. Hulsey
E. Hulsey
By direction

RECEIVED
APR 22 1986
N.W. MI. WKS

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
13th NAVAL DISTRICT
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
7000
Ser 405-1683
3 August 1973

From: Supervisor of Shipbuilding, Conversion and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Master Ship Repair Contract N62799-70-C-0013; Labor Rates, Revision of

Ref: (a) NMIW ltr AEF/lhr of 19 Jun 1973
(b) SUPSHIP 13 ltr 7000 Ser 420-882 of 20 Apr 1973

1. Based on audit review of cost data provided in support of labor rate revisions requested by reference (a), the following hourly labor rates are approved for use in negotiating changes under the subject contract on which work is performed on or after 1 July 1973.

	Straight Time	Overtime
Direct Labor	$ 5.48	$10.96
Overhead	4.79	4.79
Administrative	.83	.83
	$11.10	$16.58

The above rates are exclusive of profit which will be considered separately.

2. Reference (b) is hereby superseded.

J. D. WINSTON
By direction

Copy to:
COMSCO Seattle (Attn: Mr. Alex Smith)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
13th NAVAL DISTRICT
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
7000
Ser 420-882
20 April 1973

From: Supervisor of Shipbuilding, Conversion and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Master Ship Repair Contract N62799-70-C-0013; Labor Rates, Revision of

Ref: (a) NMIW Portland ltr of 18 Jan 1973
(b) SUPSHIP 13 ltr Ser 420-4221 of 27 Dec 1971

1. Based on audit review of cost data provided in support of labor rate revisions requested by reference (a), the following hourly labor rates are approved for use in negotiating changes under the subject contract on which work is performed on or after 1 January 1973.

	STRAIGHT TIME		OVERTIME
Direct Labor	$ 5.17 27	5.14	$10.34
Overhead	4.96 5	5.01	4.96
Administrative	.89	.81	.89
	$11.02		$16.19

The above rates are exclusive of profit which will be considered separately.

2. Reference (b) is hereby superseded.

J. D. WINSTON
By direction

Copy to:
COMSCO Seattle (Attn: Mr. Ray McGraw)

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P. O. BOX 3109
PORTLAND, OREGON 97208

2516 N. W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

January 18, 1973

Department of the Navy
Supervisor of Shipbuilding, Conversion & Repair, USN
13th Naval District
Seattle, Washington 98115

Attention: Mr. James D. Winston
Contracting Officer

Subject: Labor Rates; Request for Revision thereof:

Reference: (a) Increase in Social Security Tax Rate, effective January 1, 1973
(b) Federal Longshoremen's and Harbor Workers' Compensation Act, Revised Rates (effective December 1, 1972) thereto:
(c) NWMI Wks ltr dated 3 November 1972
(d) SupShips ltr 7000 Ser 420-11, dated 10 January 1973
(e) NWMI Wks ltr dated 15 January 1973

Gentlemen:

Reference is made to our letter dated 15 January 1973 requesting an increase in our billing rate for negotiating change order pricing be increased due to an increase in our overhead costs based on a recent change in the Workmen's Compensation rate as well as an increase in the Social Security Tax rate.

Subject to your telephone conversation of this date with Mr. A. E. Farr, we respectfully request that our proposed billing rates as reflected in our letter of 15 January 1973 be revised as we mistakenly used the direct labor cost of $5.30 instead of the recently audited labor rate cost of $5.17 in making our determination of the increase in our overhead costs.

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

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PORTLAND, OREGON 97208

2516 N.W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

 January 18, 1973

Prior to December 1, 1972, our adjusted classification rate per $100.00 remuneration under the Longshore and Harbor Workers' Compensation Act was $8.90 based on the following:

Classification 6872F	12.24
Less Experience Modification	(X.87)
Less Premium Discount	(X.845)
Adjusted Rate prior to December 1, 1972:	8.90

The revised Workmen's Compensation rate effective December 1, 1972, as shown on Page 2, Paragraph A of the circular sent to members and subscribers for Oregon, National Council on Compensation Insurance (copy of which was enclosed with our letter dated 15 January 1973), increases our classification rate as follows:

Classification 6872F (December 1, 1972)		24.26
Less Experience Modification		(X.87)
Less Premium Discount	approx.	(X.85)
Adjusted Rate effective December 1, 1972		17.86 or 46¢ per manhour
Social Security - New Rate		5.85% per dollar
Old Rate		5.20% per dollar
Net Increase:		.065% per dollar or .03¢ per manhour

Based on the aforementioned detailed explanation our billing rate for negotiating change order pricing should be amended to reflect a 49¢ increase in our overhead costs:

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P.O. BOX 3109
PORTLAND, OREGON 97208

2516 N.W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

January 18, 1973

	STRAIGHT TIME	PREMIUM TIME
Direct Labor:	$5.17	$10.34
Administration:	.89	.89
Overhead	4.96	4.96
	11.02	16.19
Plus 10%	1.10	1.62
	12.12	17.81

We thank you for your prompt consideration in this matter.

Very truly yours,

Nick G. Calley
Assistant to the Vice President

NGC/hlk

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
13th NAVAL DISTRICT
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
7000
Ser 420-11

10 JAN 1973

From: Supervisor of Shipbuilding, Conversion, and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Labor Rates for Master Ship Repair Contract N62799-70-C-0013; approval of

Ref: (a) NWMIW Portland ltr dated 1 Aug 1972
(b) NWMIW Portland ltr dated 3 Nov 1972

1. Based on an audit review of labor rate data submitted by references (a) and (b), the following straight time and overtime hourly rates are hereby approved for use on change orders on which work is performed on or after 1 July 1972.

	STRAIGHT TIME	OVERTIME
Direct Labor	$ 5.17	$ 10.34
Administration	.89	.89
Overhead	4.47	4.47
TOTAL	$10.53	$ 15.70

2. The above rates are exclusive of profit which will be considered separately.

3. All previously approved rates are hereby superseded and cancelled.

J. D. WINSTON
By direction

Copy to:
COMSCO Seattle (Attn: Mr. Ray McGraw)

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P. O. BOX 3109
PORTLAND, OREGON 97208

2516 N. W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

3 November 1972

Defense Contract Audit Agency
Seattle Branch Office
815 Airport Way South, Room 411
Seattle, Washington 98134

Attention: Mr. Harry Gilmer

Re: (a) Master Ship Repair Contract N62799-70-C-0013
(b) Labor Rates; Revision thereof:
(c) NWMI Wks letter dated 1 August 1972

Gentlemen:

Reference is made to our letter dated 1 August 1972 wherein we requested our labor rates for negotiating change order pricing under the subject contract be changed retroactive to July 1, 1972.

We enclose herewith revised summary work sheets for the period October 1971 to September 1972 inclusive to substantiate our request for revised labor rates.

Since these work sheets are for year ending September 30, 1972 our revised change in labor rate for negotiating change order pricing is different from that requested in our letter dated 1 August 1972.

We therefore request that our labor rate for negotiating change order pricing under the subject contract be revised as follows retroactive to July 1, 1972 and delineated in our enclosed work sheets.

	Straight Time	Overtime
Direct Labor	5.17	10.34
Overhead	4.47	4.47
Administrative	.89	.89
	10.53	15.70
+ 10%	1.05	1.57
	$11.58	$17.27

Very truly yours,

A. E. Farr
Vice President

AEF/NGC

DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
Seattle Branch Office
815 Airport Way South
Seattle, Washington 98134

Y REFER TO

CAR 703

September 11, 1972

SUBJECT: Report on Evaluation of Proposed
Manhour Billing Rates
For Master Ship Repair Contract
No. N62799-70-C-0013
Northwest Marine Iron Works
Portland, Oregon
Audit Report No. 703-03-3-0073

TO: Supervisor of Shipbuilding, Conversion and Repair
Department of the Navy, Thirteenth Naval District
Seattle, Washington 98115

1. Purpose of Audit

a. In accordance with your audit request dated August 8, 1972, referenced Code 400, we have made an evaluation of Northwest Marine Iron Works proposed manhour billing rate of $11.10 an hour for straight time labor and $16.87 for overtime labor effective July 1, 1972 applicable to master ship repair contract N62799-70-C-0013.

b. The evaluation was performed in accordance with generally accepted auditing standards and included such tests of the contractor's data and records, and such other auditing procedures as were considered necessary in the circumstances. The cost principles contained in ASPR Section XC Part 2 were used as criteria in the determination of acceptable costs.

c. This report may not be released to any Federal agency outside the Department of Defense without prior approval of Headquarters,

DCAA, except where an agency requests the report in connection with the negotiation or administration of a contract by that agency.

2. Conclusions.

a. Although not adequate in all respects, we consider the cost or pricing data as submitted by the contractor to be acceptable as a basis for negotiation of the billing rates. This statement should not be interpreted to mean that the data are necessarily accurate, complete and current in all respects in accordance with Public Law 87-653, since a postaward audit review may disclose evidence not now discernible. The detailed conclusions and recommendations resulting from our review are set forth in the Exhibit and Appendices of this report.

b. The factual findings were discussed with Mr. B. Feathree, controller, who did not concur with our findings and stated that further comments would be discussed with the Contracting Officer.

c. This report should not be used for purposes other than determination of billing rates without prior consultation with this office.

d. It is requested that a copy of the negotiation report be furnished this office in accordance with ASPR 3-811(a).

e. The services of the audit staff are available on request for additional audit service or accounting counsel.

Defense Contract Audit Agency

D. J. Hennessey

D. J. HENNESSEY
Branch Manager

Audit Report No. 703-03-3-0073

Table of Contents

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Audit Report No. 703-03-3-0073

DATA SHEET

Government Solicitation No. _____

Supplies and/or services to be furnished Manhour billing rates under Master Ship Repair Contract

(X) Prime Contract No. N62799-70-C-0013 ( ) Subcontract No. _____

If subcontract, name of higher tier contractor receiving the proposal.

_____

Proposal for ( ) Initial pricing (X) Contract change or modification ( ) Price redetermination ( ) Definitization of letter contract

No. _____ ( ) Other purposes (describe)

_____

Type of contract proposed (if known and if pertinent) Firm Fixed Price

Amount of proposal. $ Rates

Date of Proposal August 1, 1972

Offeror(X) has ( ) has not furnished same item(s) under prior contracts.

Audit requested by Supervisor of Shipbuilding, Conversion and Repair 13th Naval District

Date of request August 8, 1972

Procurement Activity Supervisor of Shipbuilding, Conversion and Repair 13th Naval District

Audit Report No. 703-03-3-0073

NORTHWEST MARINE IRON WORKS
PORTLAND, OREGON

STATEMENT OF CONTRACTOR'S PROPOSED BILLING RATES
AND RESULTS OF AUDIT REVIEW

	Contractor's Proposed Rate	Results of Audit Review	
		Rate Questioned	Note
Straight Time Labor Rate			
Direct Labor	$ 5.25		1
Overhead	3.98		
Administration	.86	$ .26	2
Subtotal	$10.09	$ .26	
Profit	1.01		
Total	$11.10		
Overtime Labor Rate			
Direct Labor	$ 10.50	$ .07	1
Overhead	3.98		
Administration	.86	.26	2
Subtotal	$15.34	$ .33	
Profit	1.53		
Total	$16.87		

Explanatory Notes

1. Overtime labor rate was proposed at double the computed straight time labor rate. The recorded straight time labor includes payments for shift premium which is not separately identifiable. We computed an overtime rate based on experienced rate for six month period ended June 30, 1972 as follows:

Experienced overtime labor rate	$ 9.89
Union increase effective July 1	.54
Computed overtime labor rate	$10.43
Proposed overtime labor rate	10.50
Questioned overtime labor rate	$ .07

2. Administrative expense was based on experienced rate for the 12 month period ended June 30, 1972. We questioned the proposed administrative rate as follows:

	Pool	Base (Labor Hours)	Rate	Ref.
Proposed Administrative Rate	$468,907	545,632	$ .86	
Adjustments				
Payments to widow	$ 6,000			a
Rental income - building	13,655			b
Reallocation to subsidiaries	119,891			c
	$139,546			
Computed Administrative Rate	$329,361	545,632	$ .60	
Questioned Administrative Rate			$ .26	

a. We questioned payments to a widow of a former company officer in accordance with ASPR 15-205.6.

b. We included intercompany rental income for building in administrative expense. Costs of depreciation and taxes for the building are included in administrative expense, therefore, rental income should offset the expense.

c. The contractor provides administrative services to the subsidiary companies which include computer services, accounting and payroll. Administrative expense is charged to the subsidiary companies on the basis of a rate developed in a prior period. Details of the administrative charge rate to the subsidiaries were not available. The contractor has experienced substantial increases in computer costs and administrative salaries in the current fiscal year. It should be noted that although total administrative (G & A) expenses for the 12 months ended June 30, 1972, were approximately $106,000 more than for the 12 month period ended August 31, 1971, upon which the prior rates were predicated, allocation of G & A costs by means of intercompany service charges to other operating units of the company decreased by approximately $28,000 as follows:

NWMAR129732

Audit Report No. 703-03-3-0073

EXHIBIT A
Page 3 of 3

12 Month Period Ended	Recorded Pool of G & A Expenses	Intercompany Service Charges and Purchase Discounts
August 31, 1971	$484,995	$149,790
June 30, 1972	590,705	121,798
Increase (decrease)	$105,710	$(27,992)

d. In the absence of data to support the contractor's contention that the recorded service charges result in an equitable distribution of G & A costs to all operating activities we allocated administration costs to the contractor's subsidiaries based on costs [redacted] and questioned costs as follows:

Computed allocation to subsidiaries	$234,131
Amount allocated by contractor	114,240
Cost Questioned	$119,891

NWMAR129733

Audit Report No. 703-03-3-0073

NORTHWEST MARINE IRON WORKS
PORTLAND, OREGON

CONTRACTOR'S ORGANIZATION AND OPERATIONS

1. Northwest Marine Iron Works is a custom job shop, incorporated in the State of Oregon in May 1943, whose operations include ship repair, general machine work, and engineering.

2. The contractor has a main plant located in Portland, Oregon and leases space for ship repair from the Port of Portland located at Swan Island, Portland, Oregon.

3. The contractor has a division which handles sawmill related equipment:

Prescott Division

4. The contractor has three wholly owned subsidiaries as follows:

Electrical Construction Company
Industrial Refrigeration Company
Portland Machinery Company

5. The contractor employs approximately 600 direct labor personnel and 110 administrative personnel.

Audit Report No. 703-03-3-0073

NORTHWEST MARINE IRON WORKS
PORTLAND, OREGON

CONTRACTOR'S ACCOUNTING SYSTEM

1. The contractor employs a job cost accounting system which is reconciled to the general ledger on a monthly basis.

2. Job costs are identified as follows:

a. direct labor
b. payroll taxes as a percent of direct labor dollars
c. travel
d. direct material
e. stores inventory
f. overhead as a percent of direct labor dollars

3. Overhead costs are identified as to the main plant or the ship repair location and allocated on the basis of labor hours worked for pricing purposes.

4. General and administrative expenses are allocated on the basis of labor hours worked for pricing purposes.

5. Fiscal year ends May 31.

NWMAR129735

Audit Report No. 703-03-3-0073

NORTHWEST MARINE IRON WORKS
PORTLAND, OREGON

COMMENTS ON PROFIT

1. The contractor proposed a profit objective of ten percent of proposed rate. The weighted guidelines method of ASPR 3-808 was not used in establishing the profit objective.

2. The costs in the proposed rate have been properly classified to permit proper application of the weighted guidelines method of developing a profit objective.

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
13th NAVAL DISTRICT
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
7000
Ser 420-4221

27 DEC 1971

From: Supervisor of Shipbuilding, Conversion, and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Master Ship Repair Contract N62799-70-C-0013; Labor Rates, Revision of

Ref: (a) NMIW Portland ltr of 16 Nov 1971
(b) SUPSHIP 13 Seattle ltr Ser 420-3811 of 18 Nov 1971

1. Based on audit review of cost data provided in support of labor rate revisions requested by reference (a), the following hourly labor rates are approved for use in negotiating changes under the subject contract:

	STRAIGHT TIME	OVERTIME
Direct Labor	$4.92	$ 9.74
Overhead	$3.16	$ 3.16
Administrative	$ .37	$ .37
	$8.45	$13.27

The above rates are exclusive of profit which will be considered separately.

2. Reference (b) is hereby superseded.

J. D. WINSTON
By direction

Copy to:
COMSCO Seattle (Attn: Mr. Ray McGraw)

DEPARTMENT OF THE N[illegible]
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
13th NAVAL DISTRICT
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
7000
Ser 420-3811

18 NOV 197[illegible]

From: Supervisor of Shipbuilding, Conversion, and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Master Ship Repair Contract N62799-70-C-0013, Labor Rates; Revision of

Ref: (a) NMIW Portland ltr of 1 Oct 1971
(b) SUPSHIP 13 Seattle ltr Ser 405-4382 of 16 Sep 1970

1. Based on audit review of cost data provided in support of labor rate revisions requested by reference (a), the following hourly labor rates are approved for use in negotiating changes under the subject contract:

	STRAIGHT TIME	OVERTIME
Direct Labor	$4.92	$ 9.74
Overhead	$2.99	$ 2.99
Administrative	$ .37	$ .37
	$8.28	$13.10

The above rates are exclusive of profit which will be considered separately.

2. Reference (b) is hereby superseded.

J. D. WINSTON
By direction

Copy to:
COMSCO Seattle (Attn: Mr. Ray McGraw)

NEW LABOR CRAFT CODE LIST

Effective April 1, 1971

SHIP

01 Electricians
02 Sheet Metal
03 Ship Truck Drivers
04 Tool Room
05
06 Ship Carpenters
07 Pipe Fitters
08 Ship Laborers
09 Ship Painters
10 Scalers
11 Ship Boilermakers
12 Ship Engineers - hourly
13 Ship Office - monthly
14 Ship Machinist
15 Ship Warehousemen
16
17 Riggers
18
19 Direct Supervision
20 General Ship Supervision
22 Ship Machinist Supervision
23 Ship Engineers & Estimators
24 Ship Purchasing

SHOP

30 Shop Machinsist
31 Shop Truck Drivers
32 Shop Carpenters
33 Shop Laborers
34 Shop Painters
35 Shop Boilermakers
36 Shop Warehousemen
37 Patternmakers
38 Assembly
39 Assembly Supervision
40 Shop Engineers
41 Shop Engineers (W)
42 Shop Offices - monthly
43 Office - hourly (part time)

NWMAR129739

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P. O. BOX 3109
PORTLAND, OREGON 97208

2516 N. W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

September 1, 1970

Supervisor of Shipbuilding, Conversion & Repair, USN
13th Naval District
2400 - 11th Avenue S.W.
Seattle, Washington 98134

Attention: Mr. James C. Crozier, Liaison Auditor

Re: Master Ship Repair Contract N62682-67-C-0012;
Labor Rates, Revision thereof:

Gentlemen:

Reference is made to our letter dated 21 August 1970 requesting revision of our labor billing rates.

We regret to inform you that a clerical error had been made in our direct labor summary; and as a result we are pleased to offer you our revised labor billing rate for negotiating change order pricing under the subject contract retroactive to July 1, 1970.

We are enclosing a copy of our Direct Labor Cost Sheet.

	Straight Time	Overtime
Audit Direct Labor	4.58	9.16
Audit Overhead Payroll Taxes	3.27	3.27
Audit Administrative Expenses	.49	.49
	8.34	12.92
Profit 10%	.83	1.29
Total Billing Rate	9.17	14.21

Very truly yours,

A. E. Farr
Vice President

AEF/hlk
Encl:

21 August 1970

Supervisor of Shipbuilding, Conversion & Repair, USN
13th Naval District
2400 - 11th Avenue S W.
Seattle, Washington 98134

Attention: Mr. James C. Crozier, Liaison Auditor

Re: Master Ship Repair Contract N62682-67-C-0012;
Labor Rates, Revision thereof:

Gentlemen:

In accordance with your conversation with our Secretary, Mr. R. E. Fatherree, we enclose herewith audited substantiation of our labor, overhead and payroll taxes and administration expense for year ending June 30, 1970. In accordance with our labor contracts, we have added to these figures the labor increase of 12¢ per hour, .05¢ on overhead and payroll taxes and a cost of living increase of .04¢ per hour effective July 1, 1970.

We trust this information will facilitate in granting our request to increase our labor billing rates as shown for negotiating change order pricing under the subject contract retroactive to July 1, 1970.

	Straight Time	Overtime
Audit Direct Labor	4.79	9.58
Audit Overhead Payroll Taxes	3.27	3.27
Audit Administration Expenses	.49	.49
	8.55	13.34
Profit 10%	.86	1.33
Total Billing Rate	9.41	14.67

Very truly yours,

A. E. Farr
Vice President

AEF/m
cc: Mr. James Winston
Mr. R. Fatherree

DEPARTMENT OF THE NAVY
MILITARY SEA TRANSPORTATION SERVICE, PACIFIC
N.S.C., OAKLAND, CALIFORNIA 94625

ADDRESS REPLY TO COMMANDER
MILITARY SEA TRANSPORTATION
SERVICE, PACIFIC AREA
NOT TO THE SIGNER OF THIS LETTER

REFER TO

P-4EC

18 DEC 1968

Northwest Marine Iron Works
2516 N. W. 29th Avenue
Portland, Oregon

Gentlemen:

In reply to your letter dated 23 October 1968, the billing rates for negotiated work under the Master Ship Repair Contract are $7.78 for a straight time hour and $12.43 for an overtime hour. These rates will become effective with work performed on and after 1 December 1968.

Sincerely yours,

J. E. HUGUS
Captain, U. S. Navy
Contracting Officer

Copy to:
MSTSO SEATTLE

"Think Safety—Talk Safety—and Sell Safety"

AGOR/7200
Ser 301.1-634
12 December 1968

FIRST ENDORSEMENT ON SUPSHIP 13ND LETTER SER 420-6510 of 5 Dec 1968

From: Resident Supervisor of Shipbuilding, Conversion and Repair, USN, Portland
To: Northwest Marine Iron Works, Portland

Subj: AGOR 12/13, Contract NObs 4932; Master Ship Repair Contract N62682-67-C-0012, Labor Rates, revision of

1. Forwarded.

G. S. MOHR
By direction

NWMAR129743

ORIGINAL

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
13th NAVAL DISTRICT
2400 11TH AVENUE S.W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
AGOR/7200
Ser 420-6510
5 Dec 1968

From: Supervisor of Shipbuilding, Conversion, and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland
Via: Resident Supervisor of Shipbuilding, Conversion, and Repair, USN
13th Naval District, Portland

Subj: DE STEIGUER (AGOR-12) and BARTLETT (AGOR-13), Contract NObs-4932 and Master Ship Repair Contract N62682-67-C-0012; Labor Rates, revision of

Ref: (a) NMIW Portland ltr of 23 Oct 1968
(b) SUPSHIP 13 ltr AGOR/7200, 7200, Ser 420-1234 of 28 Feb 1968

1. Based on audit review of cost data provided in support of labor rate revisions requested by reference (a) the following hourly labor rates are approved for use in negotiating changes under the subject contracts:

	Straight Time	Overtime
Direct Labor	$4.23	$ 8.46
Overhead	2.32	2.32
Adminstration	.52	.52
Total	$7.07	$11.30

2. The above rates are exclusive of profit which will be considered separately.

3. The above approved rates are effective as of the date of this letter. However, consideration will be given to applying these rates retroactively to 1 July 1968 on a case basis for work accomplished thereafter for which negotiations have not been finalized.

4. Reference (b) is hereby superseded.

J. D. WINSTON
By direction

ORIGINAL

AED 12/12

NWMAR129744

James C. Crozier
~~George Rider,~~
Liaison Auditor,
Supervisor of Ship-
13ND bldg.
U.SnN. Seattle 98115
~~2400 11th Avenue S.W.~~
~~Seattle Wash, 98134.~~
206-527-3314
~~206 MA 2-1472~~
called 1 EH ~~386~~

NWMAR129745

ORIGINAL

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
THIRTEENTH NAVAL DISTRICT
2400 11TH AVENUE S.W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
AGOR/7200
Ser 420-4925
9 Aug 1967

From: Supervisor of Shipbuilding, Conversion and Repair, USN
13th Naval District
To: Northwest Marine Iron Works, Portland
Via: Resident Supervisor of Shipbuilding, Conversion and Repair, USN
13th Naval District, Portland

Subj: DE STEIGUER (AGOR-12) and BARTLETT (AGOR-13), Contract NObs-4932, Labor Rates for Naval Contracts; revision of

Ref: (a) NMIW ltr of 26 Jul 1967 re: Contract N62682-67-C-0012
(b) NMIW ltr of 26 Jul 1967 re: Contract NObs-4932
(c) SUPSHIP 13 ltr 7200 Ser 420-1711 of 15 Mar 1967
(d) SUPSHIP Seattle ltr AGOR/7200 Ser 410-2647 of 20 May 1966

1. Based on audit review of labor cost data provided in support of labor rate revisions requested by references (a) and (b) the following labor rates are approved for use in negotiation under Navy Contracts:

	Straight Time	Overtime
Direct Labor	$3.88 Per Man-hour	$7.76 Per Man-hour
Overhead	2.31 Per Man-hour	2.31 Per Man-hour
Administration	.46 Per Man-hour	.46 Per Man-hour
Total Cost	$6.65 Per Man-hour	$10.53 Per Man-hour

2. The above approved rates are exclusive of profit which will be considered separately.

3. The above rates are approved effective as of 1 July 1967 for work accomplished thereafter. For work performed prior to 1 July 1967 the approved rates in effect at the time of work performance apply.

4. Reference (c) and (d) are hereby cancelled and superseded.

J. L. MULLIN, Jr.
By direction

Jim Crozier
206-583-4770

Mr Helland

STRAIGHT TIME $6.65
+10% .66
$7.31

AEX 8/16/67

ORIGINAL

NWMAR129746

ORIGINAL

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
THIRTEENTH NAVAL DISTRICT
2400 11TH AVENUE S.W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
7200
Ser 420-1711
15 March 1967

From: Supervisor of Shipbuilding, Conversion and Repair, USN, 13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Contract N62682-67-C-0012, Master Ship Repair Contract; Composite hourly labor rates

Ref: (a) NMIW ltr of 24 Feb 1967
(b) NMIW ltr of 2 Mar 1967
(c) INDMAN 13ND ltr 7200 Ser 1410-746 of 13 May 1966

1. Based on review of labor cost data submitted by references (a) and (b) the following composite hourly labor rates are approved for negotiated job order and change order pricing under the subject master ship repair contract. These rates do not apply to new construction contracts.

Straight time	$6.75 per man-hour
Overtime	$10.75 per man-hour

2. Reference (c) is hereby canceled and superseded.

J. D. WINSTON
By direction

ORIGINAL

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P.O. BOX 3109
PORTLAND, OREGON 97208

2516 N.W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

July 27, 1967

MEMORANDUM

TO: Jim West
FROM: A. E. Farr
SUBJECT: Labor Agreements & Wage Scales, Marine Division, effective July 1, 1967

On July 25, 1967 agreements were entered into with the Machinists, Shipwrights and Metal Trades Unions extending to them a 5¢ hourly increase effective, July 1, 1967. We have previously signed a memo of understanding with the IBEW and by certification with the results of election the IBEW has accepted our proposals.

I refer you to my letter of June 30, 1967 and a method of payment to all Marine Unions involved and eligibility requirements for the retroactive payment for tools to be made to members of the IBEW.

Retroactivity is to July 1, 1967 for wages in all crafts. These new rates should be placed into effect the week starting July 31, 1967 and retroactive payment included in that week's earnings.

Enclosed you will find copy of the eligibility list of the IBEW members certified for the NLRB election and also eligible for retroactive tool payment.

It is my understanding that in preparing this list you have left one employee namely Mr. W. M. Cook, Jr. off the eligibility list you prepared. This man was on vacation at the time and is also eligible for the retroactive tool payment.

I am attaching all correspondence relative to this subject for your reference and if you have any question please call me.

A. E. Farr
Vice President

July 26, 1967

Supervisor of Shipbuilding, Conversion & Repair, USN
13th Naval District
2400 - 11th Avenue S.W.
Seattle, Washington 98134

Attention: Mr. J. L. Mullin, Jr.
Contracting Officer

Subject: DE STEIGUER (AGOR-12) and BARTLETT (AGOR-13), Contract Nobs 4932; Labor rates for adjudication of changes

Reference: SUPSHIP letter AGOR/7200 Ser 410-2647 dated 20 May 1966

Gentlemen:

Based on labor negotiations with the International Brotherhood of Electrical Workers concluded on July 18, 1967 and amendments and agreements with the Pacific Coast Metal Trades, Pacific Coast Marine Machinists and Pacific Coast Marine Carpenters concluded on July 25, 1967 for wage increases retroactive to July 1, 1967, we herewith request an increase of the composite hourly labor rates for negotiated Job Order and Change Order pricing under the subject contract.

1. Straight Time Composite Hourly Labor Rate: $7.52 per man-hour
2. Overtime Time Composite Hourly Labor Rate: $12.02 per man-hour

The above composite rates make provision for profit.

We will appreciate your early attention in processing and approving these hourly composite rates.

Very truly yours,

A. E. Farr
Vice President

AEF/hlk

NWMAR129749

July 26, 1967

Supervisor of Shipbuilding, Conversion & Repair, USN
13th Naval District
2400 - 11th Avenue S.W.
Seattle, Washington 98134

Attention: Mr. J. L. Mullin, Jr.
Contracting Officer

Subject: Contract N62682-67-C-0012, Master Ship Repair Contract;
Composite hourly labor rates

Reference: SupShips letter Ser 420-1711 dated 15 March 1967

Gentlemen:

Based on labor negotiations with the International Brotherhood of Electrical Workers concluded on July 10, 1967 and amendments and agreements with the Pacific Coast Metal Trades, Pacific Coast Marine Machinists and Pacific Coast Marine Carpenters concluded on July 25, 1967 for wage increases retroactive to July 1, 1967, we herewith request an increase of the composite hourly labor rates for negotiated Job Order and Change Order pricing under the subject Master Ship Repair Contract:

1. Straight Time Composite Hourly Labor Rate: $7.52 per man-hour
2. Overtime Time Composite Hourly Labor Rate: $12.02 per man-hour

We will appreciate your early attention in processing and approving these hourly composite rates.

Very truly yours,

A. E. Farr
Vice President

AEF/hlk

NWMAR129750

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
THIRTEENTH NAVAL DISTRICT
2400 11TH AVENUE S.W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
7200
Ser 420-1711
15 March 1967

Copy

From: Supervisor of Shipbuilding, Conversion and Repair, USN, 13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Contract N62682-67-C-0012, Master Ship Repair Contract; Composite hourly labor rates

Ref: (a) NMIW ltr of 24 Feb 1967
(b) NMIW ltr of 2 Mar 1967
(c) INDMAN 13ND ltr 7200 Ser 1410-746 of 13 May 1966

1. Based on review of labor cost data submitted by references (a) and (b) the following composite hourly labor rates are approved for negotiated job order and change order pricing under the subject master ship repair contract. These rates do not apply to new construction contracts.

Straight time	$6.75 per man-hour
Overtime	$10.75 per man-hour

2. Reference (c) is hereby canceled and superseded.

J. D. WINSTON
By direction

DEPARTMENT OF THE NAVY
INDUSTRIAL MANAGER, USN, 13TH NAVAL DISTRICT
2400-11TH AVENUE S. W.
SEATTLE, WASHINGTON 98314

IN REPLY REFER TO:
7200
Ser 1410-1285
17 AUG 1966

From: Industrial Manager, USN, 13th Naval District
To: Northwest Marine Iron Works, Portland, Oregon

Subj: Contract N62682-67-C-0012, Master Ship Repair Contract; composite hourly labor rates

Ref: (a) NWMIW ltr of 3 Aug 1966
(b) INDMAN 13ND ltr 7200 Ser 1410-746 of 13 May 1966

1. The revisions to composite labor rates proposed and requested by reference (a) have been reviewed.

2. Audit review indicates no justification for revision of the $6.25 straight time and $10.25 overtime hourly labor rates approved by reference (b). Accordingly, the rates set forth in reference (b) remain in effect.

J. L. MULLIN, JR.
Contract & Materials Officer
By direction

Fotheringe

DEPARTMENT OF THE NAVY
INDUSTRIAL MANAGER USN 13TH NAVAL DISTRICT
2400 – 11TH AVENUE S. W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
7200
Ser 1410-746
13 May 1966

From: Industrial Manager, USN, 13th Naval District
To: Northwest Marine Iron Works, Portland, Oregon

Subj: Contract NObs-41538, Master Ship Repair Contract; revision of composite hourly labor rates

Ref: (a) INDMAN 13ND ltr 7200 Ser 1410-431 of 16 Mar 1966

1. Based on current audit review of experienced cost data the following revised composite hourly labor rates are approved effective immediately for use in negotiations under the subject master ship repair contract:

Straight Time	$6.25
Overtime	$10.25

2. Reference (a) is hereby superseded and canceled.

J. L. MULLIN, Jr.
Contract & Materials Officer
By direction

Office Distribution	INFO. ONLY	COM-MENT	CIRC-ULATE	
PROG. MAN.				
CONTR. ADMIN.				
GEN. SUPT.				
HULL SUPER				
MACH. SUPER				
ELECT. SUPER				
ESTIM.				
PLAN. ENGR.				
PURCH.				
FILE				

ORIGINAL

DEPARTMENT OF THE NAVY

SUPERVISOR OF SHIPBUILDING, U. S. NAVY
2400 11TH AVENUE, S. W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
AGOR/7200
Ser 410-1390
21 March 1966

From: Supervisor of Shipbuilding, U. S. Navy, Seattle
To: Northwest Marine Iron Works, Portland
Via: Resident Supervisor of Shipbuilding, U. S. Navy, Portland

Subj: DE STEIGUER (AGOR-12) and BARTLETT (AGOR-13), Contract NObs-4932; Labor rates for adjudication of changes

Ref: (a) NMIW Portland ltr of 18 Feb 1966 (To INDMAN 13ND)

1. Based on audit review of the cost data submitted by reference (a) it is requested that the following approved labor and related rates be applied to Change price proposals submitted on the subject contract:

Direct Labor	$3.64 per man hour
Overhead	2.24 per man hour
Administration	.54 per man hour
Total Cost	$6.42 per man hour

2. The above approved rates are exclusive of profit which will be considered separately.

J. L. MULLIN, Jr.
Contract and Materials Officer
By direction

AGOR/7200
Ser 150-44
23 March 1966

FIRST ENDORSEMENT on SUPSHIP ltr AGOR/7200 Ser 410-1390 of 21 Mar 1966

From: Resident Supervisor of Shipbuilding, U. S. Navy, Portland
To: Northwest Marine Iron Works, Portland

1. Forwarded.

RECEIVED
MAR 24 1966
NORTHWEST MARINE IRON WORKS

W. H. SAMPLE

ORIGINAL

NWMAR129754

ORIGINAL

DEPARTMENT OF THE NAVY

INDUSTRIAL MANAGER USN 13TH NAVAL DISTRICT

2400—11TH AVENUE S. W.

SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:

7200

Ser 1410-431

16 March 1966

From: Industrial Manager, USN, 13th Naval District

To: Northwest Marine Iron Works, Portland, Oregon

Subj: Contract NObs-41538, Master Ship Repair Contract; revision of composite hourly labor rates

Ref: (a) NWMIW Portland ltr of 18 Feb 1966

(b) INDMAN 13ND ltr 7200 Ser 1410-10003 of 20 Aug 1965

1. Based on audit review of cost data furnished by reference (a) the following composite hourly labor rates are approved effective immediately for use in negotiations under the subject master ship repair contract:

Straight time	$7.10
Overtime	$11.10

2. Reference (b) is hereby superseded and canceled.

J. L. MULLIN, Jr.

Contract and Materials Officer

By direction

ORIGINAL

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P. O. BOX 3109
PORTLAND, OREGON 97208

2516 N. W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

February 18, 1966

Industrial Manager, USN, 13th Naval District
2400 - 11th Avenue
Seattle, Washington

Subject: Billing Rate

Reference: Contract NObs 4932 and NObs 41538

Gentlemen:

The following is our projected billing rate for Contract NObs 4932 and NObs 41538.

Straight Time:	
Direct Labor:	3.64
Overhead:	2.31
Administration:	.54
Total cost per hr	6.49
10%	.65
	$7.14
Overtime:	
Direct Labor:	7.28
Overhead:	2.31
Administration:	.54
Total cost per hr	10.13
10%	1.01
	$11.14

This rate will be in effect until July 1, 1966.

Very truly yours,

A. E. Farr
Vice President

AEF/hlk

ORIGINAL

DEPARTMENT OF THE NAVY
INDUSTRIAL MANAGER USN 13TH NAVAL DISTRICT
2400—11TH AVENUE S. W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
7200
Ser 1410-1003
20 August 1965

From: Industrial Manager, USN, 13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Contract NObs-41538, Master Ship Repair Contract; revision of composite hourly rates

Ref: (a) NMIW Ptld ltr of 21 July 1965
(b) INDMAN 13ND ltr 7200 Ser 1410-69 of 19 Jan 1965

1. Based on audit review of cost data furnished by reference (a) the following composite hourly labor rates are approved effective immediately for use in negotiations under the master ship repair contract:

Straight time	$ 7.25
Overtime	11.25

2. Reference (b) is hereby canceled and superseded.

J. L. MULLIN, Jr.
By direction

Defense Contract Audit Agency
815 Airport Way
Seattle Wn 98134
D. C. Crozier

ORIGINAL

NWMAR129757

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P. O. BOX 3109
PORTLAND, OREGON 97208

2516 N. W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

July 21, 1965

Industrial Manager, USN
13th Naval District
2400 - 11th Avenue S.W.
Seattle, Washington

7

Subject: Contract NObs 41,538, Ship Repair Contract
Billing Rate: Revision thereof:

Attention: Mr. J. L. Mullin, Jr.

Gentlemen:

Reference is made to our telephone conversation of 19 July 1965 wherein we requested a change in our billing rate.

We herewith request that this billing rate be increased to $7.48 per man hour and $11.49 per overtime man hour based on an audited review dated June 30, 1965.

Direct Labor:	$3.67
Overhead:	2.48
Administrative,Sales	.65
Total Cost per Hour	6.80
10%	.68
	$7.48

This new billing rate reflects the contemplated increase in labor rate as of July 1, 1965.

Very truly yours,

A. E. Farr
Vice President

AEF/hlk

DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
450 Golden Gate Avenue
Box 36065
San Francisco, California 94102

IN REPLY REFER TO

7640/000

CAR-7/R

July 9, 1965

Northwest Marine Iron Works
P. O. Box 3109
Portland, Oregon 97210

Gentlemen:

The Defense Contract Audit Agency has been established as the Department of Defense agency responsible for performing all contract audit services within the Department of Defense and for such other Government agencies as may be appropriate. Under the authority of Department of Defense Directive No. 5105.36, and as previously approved by the Secretary of Defense, the effective date for the assumption of this audit responsibility is July 1, 1965.

The new organization will continue to furnish you with the same audit services that have been rendered heretofore by the military departments. You may be assured that the changeover of audit responsibility will be effected with no interruption in the audit services to which you are accustomed. We intend to keep to a minimum any changes in the personnel now associated with your audits.

Routine communications dealing with audit services should be directed to the following, who will be under the supervision of the San Francisco Regional Office:

Leonard O. Helland
Branch Manager, Seattle Branch
Defense Contract Audit Agency
2400 - 11th Ave., SW
Seattle, Wash. 98104

7640/000

CAR-7/R
July 9, 1965

If there are any questions regarding the new organization, please feel free to contact me or Messrs. William A. Hill or J. W. Morrey, who are my assistants. The mailing address and telephone numbers at which we may be reached are:

450 Golden Gate Avenue, Box 36065
San Francisco, California 94102

Mr. William C. Harvey, Regional Mgr	556-6573
Mr. William A. Hill, Asst Regional Mgr	556-4682
Mr. J. W. Morrey, Asst Regional Mgr	556-6574

I personally look for a continuation of the harmonious arrangements that have surrounded your prior working relations with the military audit agencies.

Sincerely yours,

W. C. Harvey

W. C. HARVEY
Regional Manager

NWMAR129760

DEPARTMENT OF THE NAVY
INDUSTRIAL MANAGER USN 13TH NAVAL DISTRICT
2400 – 11TH AVENUE S. W.
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO:
7200
Ser 1410-69

19 JAN 1965

From: Industrial Manager, USN, 13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Contract NObs-41,538, Master Ship Repair Contract; revision of composite hourly rates

Ref: (a) NMIW Portland ltr of 28 Dec 1964
(b) INDMAN 13ND ltr 7200 Ser 2400S-1013 of 4 Aug 1964

1. Based on audit review of cost data furnished by reference (a) the following composite hourly labor rates are approved effective immediately for use in negotiations under the Master Ship Repair Contract:

Straight time	$6.88/man-hour($55.00/man-day)
Overtime	$10.75/man-hour($86.00/man-day)

2. Reference (b) is hereby canceled and superseded.

J. L. MULLIN, Jr.
Contract and Materials Officer
By direction

NWMAR129761

[redacted] INDUSTRIAL MANAGER, USN 13th Naval District
2400 - 11TH AVENUE S. W.
SEATTLE 4, WASHINGTON

IN REPLY REFER TO:
7200
Ser 24008-1013

4 AUG 1954

From: Industrial Manager, USN 13th Naval District
To: Northwest Marine Iron Works, Portland

Subj: Contract NObs-41,538; Ship Repair Contract Billing Rate, revision of

1. On the basis of current audit review and advice the approved billing rates for ship repair contract pricing actions are revised as follows effective immediately:

Regular time - $6.37 per man-hour ($51 per man-day)
Overtime - $10.00 per man-hour

J. L. MULLIN, JR.
Contract and Materials Officer
By direction

NWMAR129762

ASSISTANT INDUSTRIAL MANAGER, USN
2400 - 11TH AVENUE S. W.
SEATTLE 4, WASHINGTON

IN REPLY REFER TO
7200
Ser 2410-82

23 JAN 1964

From: Assistant Industrial Manager, USN, Seattle
To: Northwest Marine Iron Works, Portland, Oregon

Subj: Contract NObs 41,538; Ship Repair Contract Billing Rate, revision of

1. On the basis of current audit review and advice reflecting further reductions in your overhead costs, the approved billing rates for ship repair contract pricing actions are revised as follows effective immediately:

Regular time - $6.12½ per man-hour ($49 per man-day)
Overtime - $9.80 per man-hour

J. L. MULLIN, Jr.
Contract and Materials Officer
By direction

NWMAR129763

ASSISTANT INDUSTRIAL MANAGER, USN
2400 – 11TH AVENUE S. W.
SEATTLE 4, WASHINGTON

NOV 30 1963

IN REPLY REFER TO:
7200
Ser 2400-1708
29 Nov 1963

From: Assistant Industrial Manager, USN, Seattle
To: Northwest Marine Iron Works, Portland, Oregon

Subj: Contract NObs-41538; Ship Repair Contract Billing Rate, revision of

1. On the basis of current audit advice reflecting reductions in your overhead costs, the approved billing rates for ship repair contract pricing actions are reduced to $6.30 per man hour for regular time and $10.00 for overtime.

2. These revised billing rates shall be applicable to pricing actions negotiated on and after 2 December 1963.

J. L. MULLIN, Jr.
Contract and Materials Officer
By direction

ASSISTANT INDUSTRIAL MANAGER, USN
2400 - 11TH AVENUE S. W.
SEATTLE 4, WASHINGTON

IN REPLY REFER TO:
(Code 2410)

Code 2410

OCT 16 1963

15 OCT 1963

Code 2400

Northwest Marine Iron Works, Contract NObs-41538; Ship Repair Contract Billing Rate for Overtime

Ref: (a) Code 2400 Memo of 10 Jul 1963

1. Supplementing reference (a) which established a $6.90/hr. billing rate for regular time, a billing rate of $10.90/hr. is approved for such overtime work as is specifically authorized by change orders to be accomplished on an overtime basis.

J. L. MELLIN, JR.

Copy to:
Northwest Marine Iron Works (Mr. A. E. Farr)
Res. Auditor, ASTINSMAN Seattle
Res. Inspector Branch Portland

NAVSHIPS [illegible] INDUSTRIAL MANAGER, USN
2400 - 11TH AVENUE S. W.
SEATTLE 4, WASHINGTON

IN REPLY REFER TO:
(Code 2410)
10 Jul 1963

JUL 12

10 JUL 1963

MEMORANDUM

From: Code 2400
To: Code 2200

Subj: Northwest Marine Iron Works, Contract NObs-41,538; Ship Repair Billing Rate - Revision of

Ref: (a) NAAO ltr SC NObs-41,538 of 25 June 1963

1. On the basis of current audit advise of reference (a), the ship repair billing rate for Northwest Marine Iron Works is reduced to $6.90 per hour, effective 10 July 1963.

J. V. MULLIN, Jr.

Copy to:
Northwest Marine Iron Works (Mr. A. E. Farr)
Res Auditor, ASTINDMAN Seattle
Res Inspection Branch, Portland

ASSISTANT INDUSTRIAL MANAGER, USN
2400 11TH AVENUE S. W.
SEATTLE 4 WASHINGTON

IN REPLY REFER TO:
(2400)
20 November 1962

MEMORANDUM

From: Code 2400
To: Code 2200

Subj: Northwest Marine Iron Works, Contract NObs-41538; Ship repair billing rate

Ref: (a) Code 2400 Memo 2410 of 6 Nov 1962

1. The ship repair billing rate for Northwest Marine Iron Works is established at $6.50 per hour, effective as of 15 November 1962. Reference (a) is hereby superseded.

J. L. MULLIN JR

Copy to:
Northwest Marine Iron Works (Mr. Farr)
Res. Auditor ASTINDMAN Seattle
Res. Insp. Branch (Portland)

Codes 2410, 2411

COST AS OF W/E 1-27-80

CRAFT NO.	CRAFT NAME	ST HOURS	OT HOURS	AMOUNT
01	ELECT	29,174.0	1,123.0	317,453.07
02	SHT MET	19,530.0	173.0	199,377.19
03	TRK DRV	2,839.0	235.0	34,720.49
04	TOOL RM	1,038.0	148.0	14,095.60
06	CARPNTR	17,493.0	1,392.0	216,683.79
07	PIPEFTR	58,179.5	2,701.0	583,473.26
08	LABORER	37,259.5	5,065.0	497,968.56
09	PAINTER	9,942.0	2,572.5	163,087.02
10	SCALER	338.0	129.5	6,573.13
11	BOILR M	56,902.0	6,146.5	742,344.91
12	ENGR	275.5	21.0	1,173.74
14	MACHNST	39,820.5	1,925.0	439,505.50
15	WHSE	2,904.5	130.0	32,912.07
16		39,419.0	1,852.5	362,912.12
17	RIGGER	25,094.5	2,982.5	336,720.22
18	Q/A	2,358.5	162.5	22,604.22
21	Q/A SUP	352.0		3,305.28
30	MACHNST	20,826.0	512.0	199,826.16
31	TRK DRV	304.0	6.0	2,923.27
33	LABORER	296.5	5.0	2,808.72
35	BOILR M	1,095.0	27.5	10,657.32
36	WHSE	6.0		55.86
38	ASSMBLY	278.0	2.0	2,621.20
39	ASY SUP	450.0		5,787.00
40	ENGR	45.0		578.70
42	OFFICE	482.0		4,218.68
51	ELECT	346.5	85.0	8,656.03
52	SHT MET	171.0		2,595.40
56	CARPNTR	233.0	17.0	4,067.10
57	PIPEFTR	251.0	34.5	5,417.60
59	PAINTER	208.0	306.5	13,852.73
61	BOILR M	373.0	65.5	8,346.54

VAC., ETC: SHIP : SHOP :

P/R TAXES: SHIP : SHOP :

LABOR COST SUBTOTAL:

W.I.P. TOTALS THRU

SHIP

SHOP

ST OT

DIRECT COST

ST

OT

OWNER US NAVY

JOB NO. 1203

VESSEL USNS MONTICELLO

START 06-18-79

COMPLETE

ESTIMATE

FINAL

COST

T.R.

LABOR

PURCHASES

STORES

MILEAGE

EXPENSE

PHONE

SALES EXPENSE

SHIP 85.00%

SHOP 215.00% HR

TOTAL PAYOUT

COMB. OVERHEAD

TOTAL COST

BILLING

DATE	INVOICE	AMOUNT	DATE	INVOICE	AMOUNT

TOTAL

SHOP HOURS ST @

SHIP HOURS ST @

SHOP HOURS OT @

SHIP HOURS OT @

MATERIAL

% ON MATERIAL

EXPENSE

SALES EXPENSE

BID

EXTRA

TOTAL

TOTAL

NWMAR129768

COST AS OF W/E 1-27-80

CRAFT NO.	CRAFT NAME	ST HOURS	OT HOURS	AMOUNT
64	MACHNST	- 283.0	43.0	6,235.73
67	RIGGER	- 191.5	36.0	4,003.88
	TOTALS	368,759.0*	27,899.0*	4,257,562.09*

VAC., ETC: SHIP 1.390 ; SHOP 1.020 542,350.67

P/R TAXES: SHIP $35.900% SHOP $35.800% 1,528,235.31

LABOR COST SUBTOTAL: 6,328,148.07*

3,923,423.48

WIP TOTALS THRU 12-31-79

SHIP 3,519,558.93 2,618,184.41

SHOP 182,105.58 211,273.11

ST 17.78 OT

DIRECT COST 13,623,145.83

218,892.53

14.91 ST

29.82 OT

11,471,519.03

OWNER US NAVY

VESSEL USNS MONTICELLO

JOB NO. 1265

START 06-18-79

COMPLETE

ESTIMATE

FINAL

COST

T.R.		
	LABOR	6,328,148.07
	PURCHASES	5954,136.39
99,182.21	STORES	377,726.35
331.72	MILEAGE	450.65
	EXPENSE	2,055.93
	PHONE	4,844.46
	SALES EXPENSE	
SHIP 85.00%	TOTAL PAYOUT	12,667,361.85
SHOP 215.00% 24.13 HR	COMB. OVERHEAD	3917,247.79
	TOTAL COST	16,584,609.64

BILLING

DATE	INVOICE	AMOUNT	DATE	INVOICE	AMOUNT
1-30	Thru T	9,709,399.08	12-15	59%	

TOTAL

23,782.5	SHOP HOURS	ST @	$33.75	
344,976.5	SHIP HOURS	ST @	$23.50	8,909,607.13
552.5	SHOP HOURS	OT @	$51.34	
27,346.5	SHIP HOURS	OT @	$38.50	1,081,205.60

MATERIAL :

15.00 % ON MATERIAL :

EXPENSE :

SALES EXPENSE :

TOTAL

BID 16,424,872.00

EXTRA 1,719,681.00

TOTAL 18,144,553.00 @1-30

NWMAR129769

Port of Portland

Box 3529, Portland, Oregon 97208
503/231-5000

RECEIVED
JAN 12 1993

January 7, 1992

Mr. Bill Johnston
Northwest Marine, Inc.
5555 N Channel Ave., Bldg. 2
Portland, OR 97217

Dear Bill:

As we discussed over the telephone, I am sending you copies of several agreements between Northwest Marine and the Port which relate to Building 2.

The following agreements relate to access and utility charges for Building 2:

Port Contract Number	Description
83-008	Agreement and permit for use of land
83-010	Access agreement to Building 2
83-011	Water main access to Building 2
83-012	Utility service charges to Building 2

I have also enclosed a copy of a correction deed dated December 3, 1982, between the Port and Northwest Marine for Building 2 and adjacent real property, and a copy of the Port's waiver of its right of first refusal dated December 8, 1982, for the sale of the land to the Bradavin Property Trust.

Please let me if I can be of further assistance.

Sincerely,

Emily Erzen

Emily Erzen
Contracts Administration Manager
Portland Ship Repair Yard

cc: Bruce Robeson w/o enclosures

Port of Portland

Box 3529, Portland, Oregon 97208
503/231-5000

January 7, 1992

Copy to George P
1-27-92

Mr. Bill Johnston
Northwest Marine, Inc.
5555 N Channel Ave., Bldg. 2
Portland, OR 97217

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Please let me if I can be of further assistance.

Sincerely,

Emily Erzen

Emily Erzen
Contracts Administration Manager
Portland Ship Repair Yard

cc: Bruce Robeson w/o enclosures

CORRECTION DEED

THIS CORRECTION DEED, made and entered this 3rd day of December, 1982, between THE PORT OF PORTLAND, a municipal corporation of the State of Oregon, herein referred to as "Grantor", and NORTHWEST MARINE IRON WORKS, a corporation, herein referred to as "Grantee",

W I T N E S S E T H :

By Warranty Deed dated December 22, 1981, Grantee became the owner of the real property described in attached and incorporated Exhibit A.

This Correction Deed is intended to correct, restate and supersede the following deeds and agreements: Deed dated June 27, 1967, and recorded in Book 569, Page 49, Multnomah County Records; Deed Amendment Agreement dated December 31, 1967, and recorded in Book 607, Page 1026, Multnomah County Records; Correction Deed dated September 23, 1968, and recorded in Book 642, Page 1766, Multnomah County Records; Warranty Deed dated November 1, 1968, and recorded in Book 646, Page 1810, Multnomah County Records; Agreement dated November 1, 1968, and recorded in Book 648, Page 1816, Multnomah County Records; Warranty Deed dated November 14, 1969, and recorded in Book 708, Page 1193, Multnomah County Records; Warranty Deed dated November 19, 1969, and recorded in Book 708, Page 1361, Multnomah County Records; Deed dated August 31, 1971, and recorded in Book 849, Page 684, Multnomah County Records; Deed dated August 31, 1971, and recorded in Book 849, Page 687, Multnomah

Book 1632, pgs 1427-38

NWMAR129772

County Records; Correction Deed dated August 23, 1972, and recorded in Book 958, Page 1060, Multnomah County Records; and Correction Deed dated November 7, 1977, and recorded in Book 1221, Page 1636, Multnomah County Records; Correction Deed dated December 9, 1981, in which The Port of Portland is Grantor and Schnitzer Realty Co. is Grantee.

(1) The Grantor has established the following covenants and restrictions in order to insure proper use and appropriate development and improvement in an orderly and harmonious manner and to provide a general plan or scheme of development for the Swan Island Industrial Park, which term is understood to mean all that real property now owned or controlled by The Port of Portland situated in what is commonly known as Swan Island and Mocks Bottom in Sections 16, 17, 18, 20, and 21, Township 1 North, Range 1 East, of the Willamette Meridian, in the County of Multnomah, State of Oregon. The Grantor does not represent that the covenants and restrictions will be applied as to any other properties in the Industrial Park.

(2) The covenants and restrictions herein shall remain in force for a period of fifty (50) years from and after June 30, 1966, except as provided in Paragraphs 20 and 22, and may be enforced by the Grantor, its successors or assigns, either by action at law or suit in equity. The Grantor reserves the right to waive any of these covenants and restrictions. The Grantor shall not be responsible or liable to the Grantee or any third parties for enforcement of or for failure to enforce these covenants and restrictions. Invalidation of any one of these covenants and restrictions, or any part thereof, by judgment or decree of any court, shall in no way affect any of the other provisions, which shall remain in full force and effect.

(3) The Grantee covenants and agrees to include all the covenants and restrictions contained in this deed in any sale, lease or other arrangement which changes ownership, control or use of all or part of the said real property subsequent to its purchase by the Grantee herein, including the requirement that any subsequent owners, controllers, or users so restrict their successors in interest.

(4) It is distinctly covenanted and agreed between the parties hereto that all of the covenants, restrictions, and agreements hereinafter expressed shall be held to run with and

bind the land hereby conveyed, and all subsequent owners and occupants thereof.

(5) No noxious or offensive trade, business, or activity shall be conducted on said real property, nor shall anything be done thereon which may be or become a nuisance to the Swan Island Industrial Park.

(6) Grantee agrees to comply with applicable local and state noise regulations, ordinances or standards.

(7) Grantee agrees to comply with applicable local and state pollution regulations, ordinances or standards.

(8) No trade, business or activity shall be conducted on said real property which produces unreasonable vibration, heat, or glare discernable without instruments at or beyond the property lines. Exterior lighting shall be directed away from adjacent properties.

(9) The said real property shall not be used for any race tracks of any kind; maintenance, use or operations of any slaughterhouse; storage, processing or treatment of junk, rags, paper, or metal salvage; wrecking and salvage yard for building materials; or amusement park.

(10) Any and all buildings, structures, or improvements, or any part or projection thereof (hereinafter collectively called "buildings") at any time constructed or maintained, and extending above the ground surface (specifically excepting fences), shall conform with the following:

(a) No buildings shall be located closer than 50 feet to the property line on North Channel Avenue.

(b) No buildings shall be located closer than 10 feet to the west property line excepting the existing craneways and any new craneways and roofing over the same shall be allowed to extend to the west property line.

(c) No buildings shall be located closer than 50 feet to the north property line fronting on N. Lagoon Avenue excepting the existing office building and main warehouse building which shall be allowed to remain.

(d) No buildings shall be located closer than 20 feet to the east property line excepting that buildings can be constructed to within 10 feet along that curving section of the east property line starting at the north end of the curved section of the property line and extending to a

NWMAR129774

point 50 feet from the Channel Avenue property line, measured perpendicular to the north property line of Channel Avenue.

(e) The front yard setback fronting on N. Channel Avenue may be reduced to a minimum of 25 feet, provided that the position of the building closer than the 50-foot line is of superior and distinctive architecture and has compatible landscaping all of which has been determined and approved in writing by the Grantor. A new office building having superior and distinctive architecture with compatible landscaping as determined and approved in writing by the Grantor may be located fronting on North Lagoon Avenue adjacent to the east end of the existing office building at a distance from North Lagoon Avenue which is no less than now exists between the northeast corner of the present office building and the north property line.

(f) All areas lying between building lines and property lines adjacent to public streets, except that area held for future expansion and except along the west side of the existing building, shall be used either for landscaping or off-street, surfaced, vehicle parking, driveways, walkways, railroads or outside storage, said parking to be in accordance with paragraphs 13 and 19 hereof. All areas reserved for future expansion not in productive use shall be screened from view from the adjoining street by use of fences, walls or landscape materials.

(11) Maximum height of any new structure, other than a required utility structure such as water or smokestack, shall be forty-five (45) feet, except that the existing building, which is over the maximum height, shall be allowed to remain, and any new construction which is an extension, expansion, alteration or major repair of the existing building may be constructed to a height the same as the existing building.

(12) The maximum area that may be covered by the principal building and accessory buildings shall not exceed sixty (60) per cent of the total area of the above-described real property. The roofed-over area over the existing and any new craneways on the west side of the building to be used for loading and unloading purposes and storage will not be considered a covered area for purposes of the above mentioned limitation.

(13) Grantee, its successors and assigns, shall provide off-street automobile parking facilities at the minimum rate of one space for every three workers on the combined major and next largest working shift directly employed at and physically working in the described premises, or two spaces for every three workers on the major working shift directly employed at and

NWMAR129775

physically working in the described premises. Such parking facilities shall not be permitted on the street side of any structure constructed upon said real property unless such parking facility is adequately screened by fences, walls, or landscape materials. No parking on the street shall be permitted.

(14) All loading and unloading of trucks, railroad cars, and other vehicles shall be made upon the above described premises, with no on-street loading or unloading permitted. Maneuvering of vehicles shall be made upon the above described premises, and not in any public road, avenue or street. All truck loading aprons and other loading areas shall be paved with a dust-free all-weather surface; be well drained and of a strength adequate for the truck traffic expected.

(15) All materials, supplies or products stored or displayed on the premises outside a permanent structure shall be visibly screened from all approaches by a suitable barrier or screen, and such materials, including wastes, shall be stored in such a manner as not to attract or aid the propagation of insects or rodents, or create a health hazard.

(16) All signs are subject to Grantor's approval prior to installation. No flashing or rotating signs will be permitted.

(a) Building signs

Signs on roofs, fences, or painted on exterior faces of buildings are prohibited. A sign is permitted to be placed upon the outside wall of any new building, but shall not extend above the eave or parapet of that wall and shall not exceed in size five (5) percent of the wall it is placed on. Signs shall not be placed or externally illuminated in a manner which is detrimental to neighboring occupancies or to the safe movement of ground traffic. Sign colors and details shall be submitted to Grantor for approval prior to installation.

On the existing building, the Grantee shall be permitted one sign, not to exceed 3-1/2 feet in height by 200 feet in length on the outside wall of the building and not to extend above the eave or parapet of that wall. This sign shall meet all of the standards set forth in the preceding paragraph, except for the dimensions just described.

NWMAR129776

(b) Free-standing signs

No free-standing advertising signs or billboards will be permitted except a single identification sign approved by Grantor. Details of any free-standing sign shall be submitted to Grantor. The sign shall conform to the appropriate jurisdiction's ordinance or code and in general shall not exceed four (4) feet in height or 16 square feet in surface area.

Directional signs such as "Enter," "Shipping," etc., are allowed adjacent to each driveway, but shall not exceed four (4) feet in height or ten (10) square feet in surface area.

(17) All electrical and telephone service shall be brought underground into the above-described real property and to the buildings from the nearest available line, at the expense of Grantee. Pad mounted electrical transformers shall be located and screened so as to prevent viewing from any public street.

(18) All new construction, extension of existing buildings, covering of existing craneways within said real property shall be of a permanent type construction with fire retardant roofing, and shall be maintained in good condition and repair, and shall be compatible with other structures in the Swan Island Industrial Park. Exterior walls of all buildings shall be of exposed concrete aggregate, stucco, glass, terrazo, architectural metal including prepainted corrugated steel siding, brick, or other pre-finished material. Concrete, concrete block or wood siding are also acceptable materials for exterior walls, but they must be finished by painting, staining, or other processing. All building siding and trim on the existing building which remains exposed shall be replaced with the same siding material utilized in new construction or painted in a manner compatible with the construction contemplated by the Grantee and maintained by repainting at least every five (5) years.

(19) Grantee, its successors and assigns, covenants and agrees that it shall plant and maintain on the above real property a strip at least 10 feet in width along all street property lines, except that along N. Lagoon Avenue where it may be reduced to 5 feet in width beginning at a point on the north property line opposite the northeast corner of the existing office building and extending to the northwest corner of the property, and exclusive of drives, walks and railroad rights-of-way, each strip to be landscaped in an attractive manner in keeping with the quality of the general plan and scheme of development for the Swan Island Industrial Park. Grantee shall plant and maintain landscaping in 100% of the area

NWMAR129777

except approved walkways in front of those portions of the building which have been permitted to extend closer to the property line than 50 feet, as provided in paragraph 10 (e) above. Grantee may erect fences of woven wire, metal, or any other suitable non-flammable material, at any location within the herein described property except for the 10 and 5-foot wide landscaped strips along all street property rights-of-way.

(20) Until December 9, 2011, Grantee, for itself, its successors and assigns, covenants and agrees that it will not sell or contract to sell all or any portion of said real property and the improvements thereon during the period hereinbefore specified without first giving written notice to Grantor of (a) the terms and conditions of any bona fide offer to purchase the same which it has received and is willing to accept, (b) the name of such offeror and (c) if known, the use such offeror proposes to make of said real property and improvements, and Grantor shall have the right to purchase said real property and improvement within thirty (30) days thereafter upon the same terms and conditions as may be contained in such bona fide offer. If Grantor fails to make such purchase, then said real property and improvements may be sold or contracted to be sold to such offeror on the terms and conditions of which notice was given to Grantor within six (6) months after expiration of such thirty (30) day period. If said real property and improvements are not so sold or contracted to be sold within such six (6) months' period, then they cannot thereafter be sold or contracted to be sold without again offering the same to Grantor as provided above. The provisions of this paragraph shall not apply to a transfer of the property to a wholly-owned subsidiary of Grantee, provided Grantee's use and occupancy of the premises is not affected.

(21) Grantee will use the premises for operating a steel warehouse and steel fabrication operation, which includes leveling, rolling, shearing, cutting, corrugating and stripping and for an industrial mill supply and distribution facility. Grantee will not advertise for sale nor make sales to the general public, but an occasional retail sale to a member of the general public shall not be construed as a breach of this agreement. Also permitted are uses related to ship repair activities and the construction industry.

(22) In the event Grantee utilizes the premises for other purposes than described in Paragraph 21, Grantor shall have the right at any time to notify Grantee in writing of such breach of covenant. In the event that Grantee has not eliminated completely such breach of covenant within ninety (90) days after receiving said notification, Grantor shall have the right to repurchase said real property and improvements thereon upon the subsequent tender of its written notice to Grantee of its

NWMAR129778

intention to repurchase. The repurchase price shall be the fair market value of said real property and improvements upon the date said notice of intention to repurchase is delivered to Grantee and shall be paid by Grantor in cash upon delivery of a good and sufficient warranty deed conveying fee simple title to Grantor free and clear from all liens, encumbrances and restrictions other than those contained in the title policy to be provided by Grantor and those caused, created or suffered by any governmental action.

In the event the parties hereto are unable to agree upon said fair market value within thirty (30) days after said subsequent tender of written notice, Grantee and Grantor shall each promptly give in writing to the other, the name of a disinterested real estate appraiser familiar with real estate values in the City of Portland to act as arbitrators. The two men so chosen shall select a third and these three arbitrators shall then immediately proceed to determine the fair market value of said real property and improvements and report said fair market value in writing to the parties hereto. Such report and determination, whether unanimous or by majority, shall be final and binding upon the parties hereto as to the fair market value.

In the event that for any reason, whether through failure to appoint arbitrators or failure of the arbitrators to act, no report of such fair market value is made within ninety (90) days from the date said notice of intention to repurchase is delivered to Grantee, either party may apply for judicial relief under the applicable arbitration statutes of the State of Oregon, to the end that the fair market value as contemplated herein shall be determined. No appraisal or determination of fair market value shall be invalid by reason of having been delayed or not having been made within the time herein provided. The cost, including attorneys' fees as the Court may find as reasonable in any such legal proceeding shall be borne and paid by the party whose neglect or default as determined by the Court has made such proceeding necessary.

This preemptive right of repurchase by Grantor shall run with the land and bind all subsequent owners of all or any portion of the real property herein for a period of twenty-one (21) years from and after June 30, 1966.

(23) Grantor, its successors and licensees reserve the right to utilize all of Building No. 4 craneway, supports, columns and footings located upon said real property adjacent to the property line which lies between the west side of Building No. 2 and the east side of Building No. 4. Grantee and Grantor agree to jointly maintain the eight supports, columns and footings which hold up the Building No. 2 craneways so long as

NWMAR129779

the Grantor, its successors and licensees require them to support the said Building No. 4 craneways. Grantor, its successors and licensees may remove all or any part of that portion of the eight supports and columns extending above the beams supporting the cranerails of Building No. 2 and all of the two supports and columns at each end of Building No. 4 after giving Grantee 90 days written notice of intention so to do. Grantor shall not be held liable for any structural damages or weakness to Building No. 2 and its craneways unless such damages are caused by the negligence of Grantor, its successors or licensees, or the agents or contractors of any of them. The fact of the removal itself will not be considered as negligence. If after the aforementioned removal there is required additional lateral support, or any other support to Building No. 2 and its craneways, then said support shall be the responsibility and at the cost of Grantee.

(24) All property is subject to an annual charge for a proportionate share of the cost of maintaining public and common areas, including landscaping within road rights-of-way in the Swan Island Industrial Park. Such charges shall reimburse the Grantor for all costs incurred and shall be calculated by: (1) determining the percentage that each property represents of the total acreage sold by or leased from the Grantor within the Swan Island Industrial Park and (2) multiplying the total cost by this percentage, the product of which shall be the amount charged to the subject parcel. Such charges are due on the first day of August of each year based on the costs incurred by the Grantor in the prior fiscal year. Charges for a portion of a year shall be prorated. The unpaid charge for public and common areas maintenance shall become a lien on the land against which it is charged; provided, however, that any person purchasing or otherwise dealing with said land may rely upon a certificate signed by the Grantor showing the amount of the charge due. The parties hereto consent to the installation of landscaping in public streets, abutting their land and authorize the Grantor to make such arrangements as necessary to maintain the public and common areas. The Grantor may assign its rights and obligations under this agreement to a property owner's association, after which time the sums provided in the covenants herein shall be paid to such association.

IN WITNESS WHEREOF, The Port of Portland, pursuant to a resolution of its Board of Commissioners duly and legally adopted,

NWMAR129780

has caused these presents to be signed by its President and Secretary this 3rd day of December, 1982.

THE PORT OF PORTLAND
A Municipal Corporation

(CORPORATE SEAL)

By: John C. Caldwell
President

By: Lee A. Underwood
Assistant Secretary

APPROVED AS TO FORM ON 10/9/82
Counsel for The Port of Portland

STATE OF OREGON)
) ss. Dated: December 3, 1982.
County of Multnomah)

PERSONALLY APPEARED John C. Caldwell and Lee A. Underwood who, each being first duly sworn, did say that the former is the corporate president and that the latter is the corporate assistant secretary of THE PORT OF PORTLAND, a municipal corporation, and that the seal affixed to the foregoing instrument is the corporate seal of said corporation and that said instrument was signed and sealed in behalf of said corporation by authority of its Board of Commissioners; and each of them acknowledged said instrument to be its voluntary act and deed.

BEFORE ME: Shirley J. Darlington
NOTARY PUBLIC FOR OREGON
My Commission Expires: 3-7-86

CORRECTION DEED

THE PORT OF PORTLAND,
Grantor,
NORTHWEST MARINE IRON WORKS,
Grantee.

AFTER RECORDING RETURN TO:

UNTIL A CHANGE IS REQUESTED, ALL TAX STATEMENTS SHALL BE SENT TO THE FOLLOWING ADDRESS:

NORTHWEST MARINE IRON WORKS
P. O. Box 3109
Portland, Oregon 97208

State of Oregon)
) ss.
County of Multnomah)

I certify that the within instrument was received for record on the ____ day of _____, 19___ at _____ o'clock ___.M., and recorded in book _____ on page _____ or as file/reel No. _____, of the Records of Deeds of said County.

Witness my hand and seal of County affixed.

_____
Recording Officer

By: _____
Deputy

NWMAR129781

EXHIBIT A

A portion of land located in Section 17, Township 1 North, Range 1 East of the Willamette Meridian, in the County of Multnomah and State of Oregon, being more particularly described as follows:

Beginning at a point which is 265.89 feet North and 4641.89 feet West of the southeast corner of said Section 17; which point is also the point of intersection of tangents of the centerline of a 90°48' curve in N. Channel Avenue; thence South 75°18'23" East a distance of 520.55 feet along the centerline of N. Channel Avenue; thence North 15°32'10" East 40.00 feet to a point on the North right-of-way line of North Channel Avenue and the TRUE POINT OF BEGINNING; thence continuing North 15°32'10" East 948.87 feet; thence 158.77 feet along the arc of a 788.51 foot radius curve to the right (the long chord bears South 58°16'06" East 158.27 feet) through a central angle of 11°32'11" to a point of tangency; thence South 52°30'00" East 323.19 feet; thence South 37°30'00" West 10.00 feet, more or less, to a point on the right-of-way of North Lagoon Avenue; thence South 52°30'00" East along said right-of-way 654.91 feet to a point that is 399.98 feet North and 2969.01 feet West of the southeast corner of said Section 17; thence 59.69 feet along the arc of a 38.00 foot radius curve to the right (the long chord bears South 07°30'00" East 53.74 feet) through a central angle of 90°00'00"; thence South 37°30'00" West along the westerly right-of-way of North Dolphin Street 287.57 feet; thence North 52°30'00" West 480.51 feet; thence South 15°32'00" West 97.69 feet; thence North 74°28'00" West 1.50 feet; thence 316.52 feet along the arc of a 410.87 foot radius curve to the left (the long chord bears South 06°32'10" East 308.75 feet) through a central angle of 44°08'20" to a point on the Northerly right-of-way of North Channel Avenue; thence North 75°18'23" West along said right-of-way 637.77 feet to the TRUE POINT OF BEGINNING, subject to a 15.00' wide sewer easement as described in Book 569, Page 49 and 50 and being more particularly described as follows:

Beginning at a point on the north right-of-way of North Channel Avenue from which the TRUE POINT OF BEGINNING of the above described parcel bears North 75°18'23" West 503.02 feet; thence South 75°18'23"

East along said right-of-way 15.00 feet; thence North 15°49'50" East 737.19 feet to a point on the south right-of-way of North Lagoon Avenue; thence North 52°30'00" West along said right-of-way 16.14 feet; thence South 15°49'50" West 743.45 feet to the point of beginning.

EXCEPTING THEREFROM the following:

Beginning at the southwesterly corner of that tract described as Parcel III in deed to Schnitzer Realty Co., recorded December 24, 1981 in Book 1569, Page 1570, Records of Multnomah County, said point being 400.07 feet North and 3,503.93 feet West of the S.E. corner of Section 17; thence North 15°32'00" East 351.06 feet to a point on the right-of-way of N. Lagoon Avenue; thence North 52°30'00" West along said right-of-way 18.07 feet; thence South 15°32'00" West 351.06 feet; thence South 52°30'00" East 18.07 feet to the Point of Beginning.

Port of Portland

Box 3529 Portland, Oregon 97208
503/231-5000
TWX: 910-464-6151

October 13, 1982

Northwest Marine Iron Works
PO Box 3109
Portland, OR 97208

83-012

MONTH TO MONTH AGREEMENT FOR UTILITY SERVICE CHARGES

The purpose of this letter is to establish a month to month agreement between Northwest Marine Iron Works and the Port of Portland for utility services provided by the Port to the area leased by Northwest Marine Iron Works which is designated as Building 2, located adjacent to the Portland Ship Repair Yard.

The monthly charge for utility service includes water and sewage at the following billable rates which are payable in arrears:

Per Month Water & Sewage - $575.00 + 95 cents per 100/CF

The Lessee shall pay the Port monthly on or before the tenth (10th) day of each calendar month. The term of this agreement shall commence on August 1, 1982 and continue on a month to month basis.

The Lessee shall keep and hold the Port, it's commissioners, officers, agents, or employees free and harmless from any and all claims and actions and all expenses incidental to the investigation or defense thereof claimed by anyone by reason of injury or damage to persons, property or loss of work sustained as a result of the availability or lack of availability of the utility services normally provided to the designated area.

The cost of service is an agreed upon rate, based on the utility cost from the Portland Water Bureau. Modification of the rates charged will be subject to a minimum of thirty days advance notice to the Lessee.

Enclosed are three copies of this agreement. Please approve of the terms and conditions stated herein by signing where indicated. Return two signed copies to me for further processing.

Gary W. Bevans
Business Manager
Portland Ship Repair Yard

Accepted by,

Northwest Marine Iron Works

enclosures (3)

GWB:jl:e

Port of Portland

Box 3529, Portland, Oregon 97208
503/231-5000

November 18, 1992

Doug Temple
Northwest Marine, Inc.
5555 N. Channel Ave., Bldg. 2
Portland, OR 97217

BUILDING 2 WATER AND SEWER CHARGES - RATE INCREASE

On July 1, 1992, the City of Portland Water Bureau increased its rates for water and sewer service. The new rates applicable to Northwest Marine are:

$1,437.50 per month storm water drainage
$1.557/100 cubic feet sewage
$0.770/100 cubic feet water

Effective December 1, 1992, theses rates will be charged to Northwest Marine for water and sewer service to Building 2. These charges are passed-through in accordance with the Port's agreement with Northwest Marine to provide water and sewer service to Building 2.

The prior rates consisted of the following:

$1,437.50 per month storm water drainage
$1.160/100 cubic feet sewage
$0.750/100 cubic feet water

The storm water drainage fee is the Water Bureau's charge for storm water runoff on asphalt, concrete or other impervious surfaces. This rate has not been increased.

If you have any questions, please call me at 240-3012.

Emily Erzen

Emily Erzen
Contracts Administration Manager
Portland Ship Repair Yard

cc: Susie Barfield

PORT OF PORTLAND

NORTHWEST MARINE IRON WORKS

83-11

AGREEMENT

WATER MAIN ACCESS TO BUILDING 2

THIS AGREEMENT, made and entered into by and between THE PORT OF PORTLAND, a municipal corporation of the State of Oregon, located at Port Office Box 3529, Portland, Oregon 97208, and NORTHWEST MARINE IRON WORKS, a corporation organized under the laws of Oregon with offices at Post Office Box 3109, Portland, Oregon 97208; and

WHEREAS, the parties entered into an agreement dated June 21, 1982, Port Contract 82-73, regarding the moving of Lessee to its' buildings and matters related to the Lagoon Avenue street vacation; and

WHEREAS, the parties hereby agree to the following:

1. The Port agrees to provide water main access to Northwest Marine Iron Works Building 2 site from the Port's Lagoon Avenue water main line commencing on August 1, 1982 for a term not to excess August 1, 2000 (18 years).

2. This access is provided at the Port's cost of service, and will include any costs of connection, meter reading, and maintenance.

3. The cost of service is an agreed upon rate, based on the utility cost from the Portland Water Bureau. The rate is set according to a separate month to month agreement.

4. The meter to Building 2 is to be read by Northwest Marine Iron Works on a monthly basis and reported to the Port by the 1st of each month. The usage will be billed in arrears.

IN WITNESS WHEREOF, the parties hereto have subscribed their names.

NORTHWEST MARINE IRON WORKS, INC.

By _____

By _____

Date: _____

THE PORT OF PORTLAND

By _____
EXECUTIVE DIRECTOR

Date: 1/5/83

APPROVED AS TO FORM

_____
Counsel for The Port of Portland

APPROVED BY COMMISSION ON:
June 9, 1982

GWB:jl:e

AGREEMENT AND PERMIT FOR USE OF LAND

WHEREAS, THE PORT OF PORTLAND, hereinafter referred to as Port, and NORTHWEST MARINE IRON WORKS, INC., hereinafter referred to as NMIW, entered into an agreement dated June 21, 1982, Port Contract 82-73, regarding the moving of NMIW to its building and matters related to the Lagoon Avenue street vacation; and

WHEREAS the parties now need to implement Item 1 on Page 2 of that agreement;

NOW, THEREFORE, the parties agree as follows:

1. Port grants to NMIW permission to enter upon and use for parking of vehicles Port property shown on Exhibit II for a term not to exceed June 1, 2000 (18 years). The permit area is identified as the area vacated by the street vacation of Lagoon Avenue consisting of approximately 1.5 acres of land and is the area from the former property line of NMIW to Port property at the curb line of the west side of Lagoon Avenue.

The area granted as a parking strip, including existing fire hydrants, roadways, street signing, and lighting, shall be maintained by Port. The Port reserves the right to adjust parking area for fire lanes, utilities and general shipyard efficiency.

2. NMIW agrees to defend and hold harmless Port from claims, damages, and injuries resulting from the granting of this permit for property use and for access.

3. Port grants to NMIW access between the Building 2 site, the parking lot identified above, and the Portland Ship Repair Yard.

Dated this 5 day of January, 1983.

NORTHWEST MARINE IRON WORKS, INC.

W J Butler

Date: _____

THE PORT OF PORTLAND

By _____
Executive Director

Date: 1/5/83

APPROVED AS TO FORM

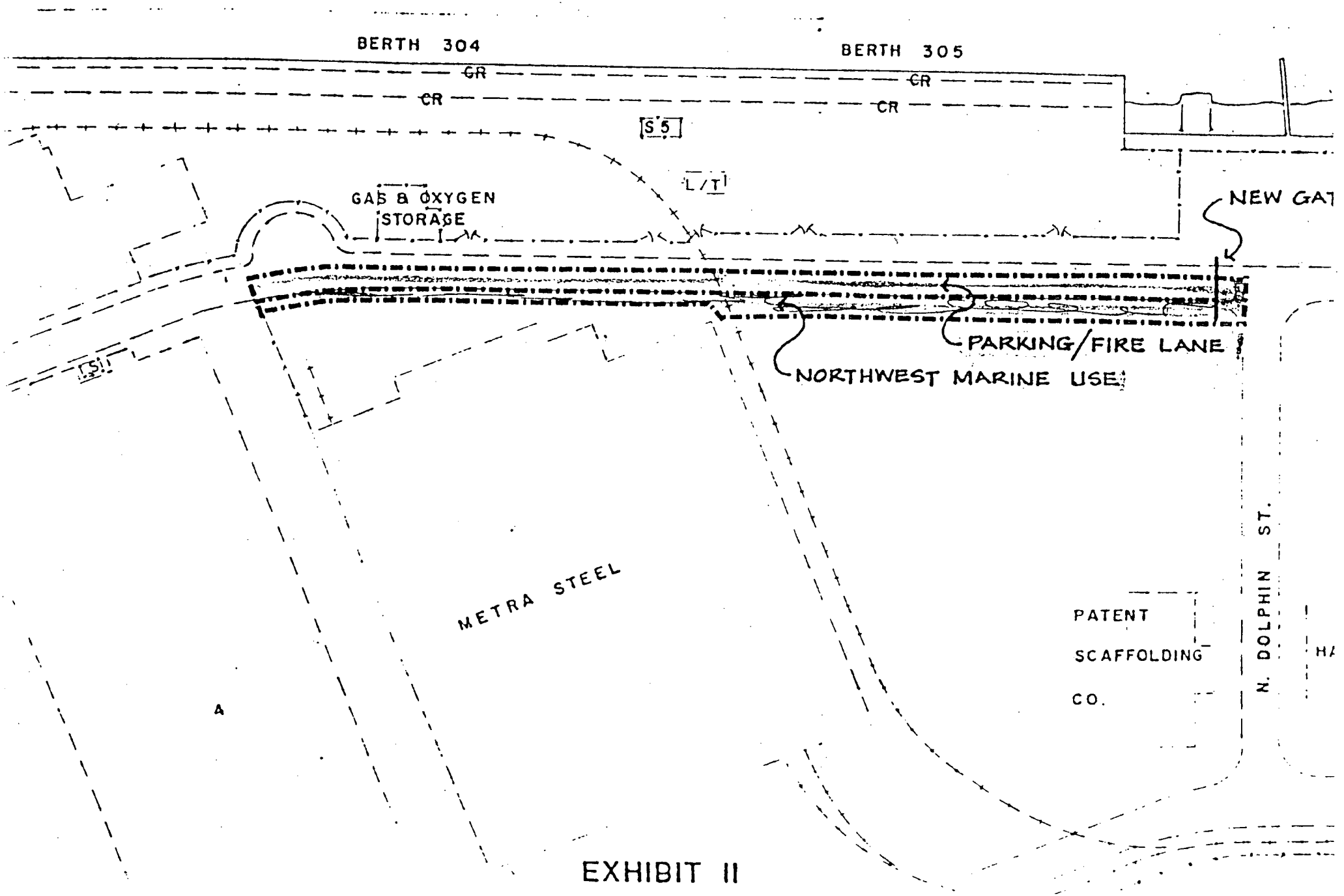
Betty J Comfort
Counsel for
The Port of Portland

APPROVED BY COMMISSION ON:
June 9, 1982

10/01/82
0089d:07H003

NWMAR129790

EXHIBIT 11


BERTH 304
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STORAGE
NEW GAT
PARKING/FIRE LANE
NORTHWEST MARINE USE
S
METRA STEEL
PATENT
SCAFFOLDING
CO.
N. DOLPHIN ST.
A

EXHIBIT II

AGREEMENT AND PERMIT

WHEREAS, THE PORT OF PORTLAND, hereinafter referred to as Port, and NORTHWEST MARINE IRON WORKS, INC., hereinafter referred to as NMIW, entered into an agreement dated June 21, 1982, Port Contract 82-73, regarding the moving of NMIW to its building and matters related to the Lagoon Avenue street vacation; and

WHEREAS the parties now need to implement Item 2 on Page 2 of that agreement;

NOW, THEREFORE, the parties agree as follows:

1. Port grants to NMIW access to its property (Building 2) through the present visitors parking lot of the Port for a term not to exceed June 1, 2000 (18 years) all as identified on Port Drawing SK 6-8-82-1.

In the event of change in the visitor parking lot lay-out or access area, parties agree to find mutually acceptable replacement access from Building 2 to the yard.

2. NMIW agrees to defend and hold harmless Port from claims, damages, and injuries resulting from the granting of this permit for access.

Dated this 5 day of January, 1983.

NORTHWEST MARINE IRON WORKS, INC.

_____

_____

Date: _____

THE PORT OF PORTLAND

By _____
Executive Director

Date: 1/5/83

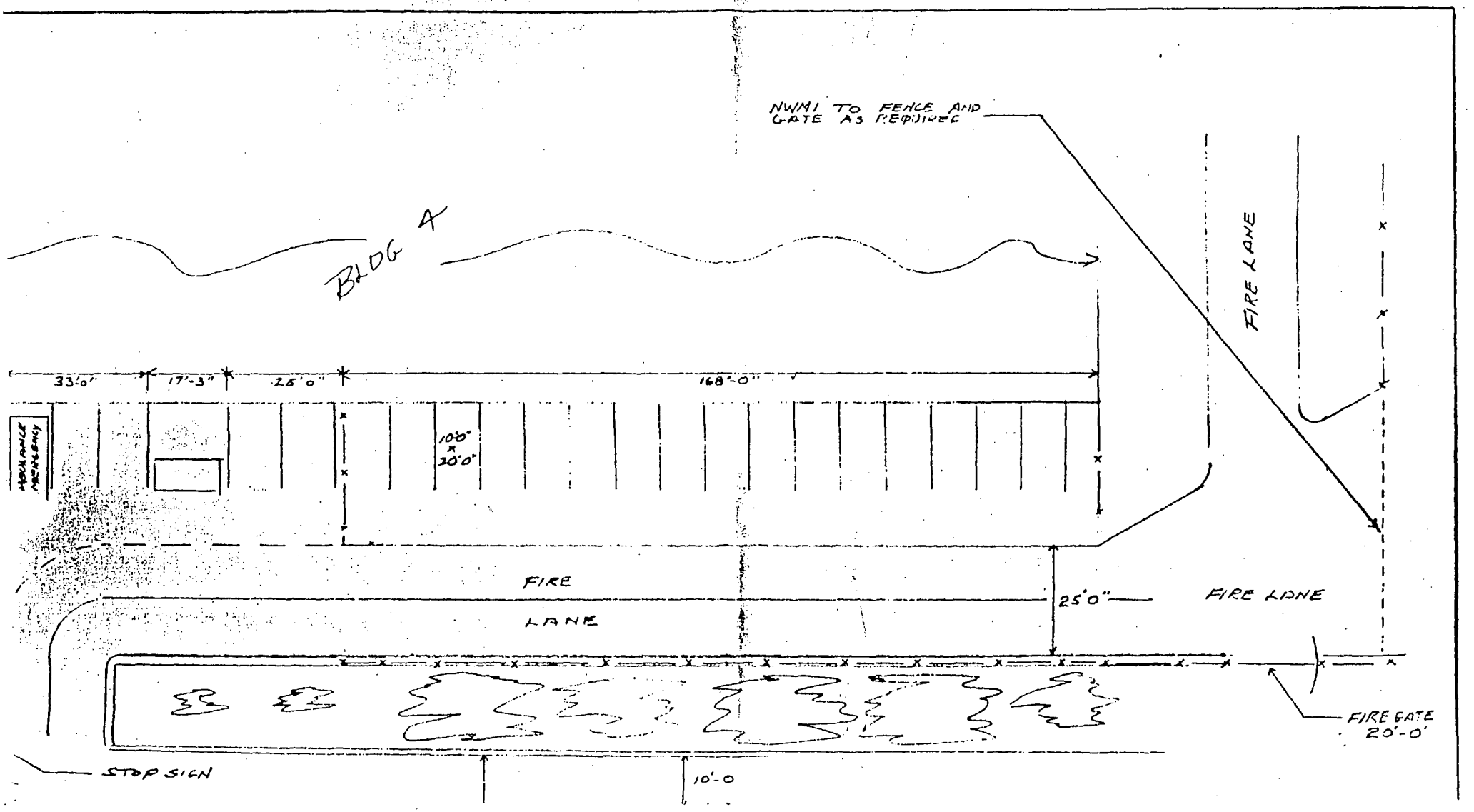
APPROVED AS TO FORM

_____
Counsel for
The Port of Portland

APPROVED BY COMMISSION ON:
June 9, 1982

10/01/82
0089d:07H003

NWMAR129794



NWMAR129795

Dale Wahl
7
Jim B

ORIGINAL

AUDIT REPORT ON EVALUATION OF PRICE
PROPOSAL FOR JOB ORDER NO. 0036, SERIAL 6A
CONTRACT N62799-70-C-0013
NORTHWEST MARINE IRON WORKS
PORTLAND, OREGON

The Defense Contract Audit Agency has no objection to the release of this report, at the discretion of the Contracting Officer, to the duly authorized representatives of Northwest Marine Iron Works.

Release to the public of any contractor information contained in this report is prohibited by 18 USC 1905.

DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
SEATTLE BRANCH OFFICE
SEATTLE, WASHINGTON

AUDIT REPORT NO. 7261-9P210007

DATE OF REPORT 19 December 1978

DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
SEATTLE BRANCH OFFICE
ROOM 411
815 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98134

ORIGINAL

IN REPLY REFER TO
7261 762.21
9P210007
0135

19 December 1978

SUBJECT: Audit Report on Evaluation of Price Proposal
Job Order No. 0036, Serial 6A
Contract N62799-70-C-0013
Northwest Marine Iron Works
Portland, Oregon
Audit Report No. 7261-9P210007

TO: Supervisor of Shipbuilding, Conversion and Repair, USN
Seattle, Washington 98115

1. Purpose of Audit.

a. As requested by your letter dated 3 November 1978, reference FF-1058 Ser. 435.10-6459, we have performed an evaluation of Northwest Marine Iron Works, FFP, undated, in the amount of $171,207. The proposal is to extend for 57 days the period for furnishing personnel berthing, messing, and laundry facilities under contract N62799-70-C-0013 (USS Meyerkord). The period of contract extension was from 10 October 1978 to 6 December 1978.

b. The evaluation was performed in accordance with generally accepted auditing standards and included such tests of the contractor's data and such other auditing procedures as were considered necessary in the circumstances. The cost principles contained in DAR Section XV, Part 2 were used as criteria in the evaluation of proposed costs.

c. This report may not be released to any Federal agency outside the Department of Defense without the approval of Headquarters, DCAA, except to an agency requesting the report in negotiating or administering its contract.

2. Special Circumstances Affecting the Examination.

Your request for audit advised that a technical analysis would not be furnished. We were unable to reach a definitive conclusion by other available means on certain quantitative aspects relating to the contractor's proposed costs. Consequently, the

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results of this audit are qualified to the extent that certain proposed costs, in addition to those tabulated below, may be questionable.

3. Summary of Results of Audit.

The contractor's proposal and our recommendations are summarized below. Explanation of the cost questioned is contained in the ensuing subparagraphs.

Contractor's Proposal:		
Estimated costs	$ 0	Note 1
Profit	171,207	Note 1
Total proposed	$171,207	Note 1
Results of DCAA Auditor's Review		
Recommended allocable depreciation costs	$ 27,135	Note 2
Questioned amount	$144,072	Note 3

Additional information concerning the contractor's organization and operations, along with comments on profit, is set forth in the Appendices of this report.

Explanatory Notes.

1. a. The contractor's proposal is to provide berthing, messing, and laundry facilities for 57 days in addition to the 250 days specified in the basic contract no. N62799-70-C-0013. The proposed amount was computed as follows:

		Basic Contract		Proposed 57 Day Extension
Berthing	(Line item 992.04)	$398,590 ÷ 250 x 57	=	$90,879
Messing	(Line item 992.05)	$295,816 ÷ 250 x 57	=	$67,446
Laundry	(Price Proposal serial #1)	$ 56,500 ÷ 250 x 57	=	$12,882
Total		$750,906 ÷ 250 x 57	=	$171,207

b. The entire proposed amount was shown as profit on the contractor's undated DD633-5.

2. The contractor is using the ex-Navy barge APB-36, USS Colleton, to provide the berthing, messing, and laundry services. It purchased the

barge on 1 November 1977 for $405,000 and spent an additional $550,260 for repairs and modifications to put it in satisfactory condition. The contractor capitalized the $955,260 investment in the barge and is depreciating it over a 10 year period in accordance with its established depreciation practices for such assets. The annual straight line depreciation after adjustment for estimated salvage is $90,000.

During its FY ending 31 May 1978 the contractor charged $90,000 to shipyard overhead expense for depreciation of the barge. The other operating expenses such as utilities, water, insurance, taxes, etc. were not segregated in the contractor's books and records. The contractor informed us that some were charges direct to the USS Meyercord job and others were charged to shipyard overhead expense. In either event the barge costs are comingled and it is not now possible to identify any of the costs except depreciation.

In our opinion the contractor's present accounting practices are not adequate for producing data that is suitable for pricing this change order. Moreover it should be noted that the contractor is recovering a portion of the barge costs whenever the hourly master ship repair rate is used to price change orders. Under the circumstances we recommend that for the purposes of pricing this change order the contracting officer only recognize allocable depreciation expense calculated as shown below and an estimate of any other applicable recurring direct cost that the contractor can adequately support by engineering estimates or other appropriate estimating techniques.

The contractor's present practice of accounting for a portion of the barge costs as shipyard overhead expense contravenes the cost principles set forth in DAR 15-203. It does so because direct labor hours are used as the allocation base for shipyard overhead. Most Navy and commerical ship repair jobs do not require use of the barge. We believe DAR 15-203 requires the contractor to collect the barge operating costs in a seperate cost grouping and allocate those costs to the benefiting work (contracts) over an appropriate allocation base. In this instance we believe days of use is an appropriate base.

The following is our calculation of the depreication expense which we consider to be allocable to this change order:

a. Number of days use for FY 79 (June 1 to December 6) — 189 days

b. Number of days use in change proposal — 57 days

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NWMAR129799

c.	Percentage of proposal days to total days (57 ÷ 189)	30.15%
d.	Amount of annual depreciation	$90,000
e.	Costs allocable to this proposal (line c x d)	$27,135

3. We questioned the amounts in excess of allocable depreciation costs and recommend that the contractor be required to furnish cost data in support of other direct costs allocable to the change as discussed in Note 2.

4. Conclusions.

a. It is our opinion that the offeror has submitted cost or pricing data not adequate as a basis for negotiation of a price, as discussed with Mr. R. Morrison on 7 December 1978, and as described in the notes to Paragraph 3 Summary of Results of Audit. The proposal has, nevertheless, been evaluated to the extent possible in the circumstances.

b. Audit matters were discussed with Mr. D. Weitze , Accounting Manager, to the extent deemed necessary to insure the accuracy of our findings. The contractor's reaction to specific audit exceptions are discussed in the Results of Audit.

c. This report confirms the results of audit furnished to Mr. R. R. Morrison by telephone on 19 December 1978.

d. Information contained in this report should not be used for purposes other than for which it was intended without prior consultation with us regarding its applicability.

e. It is requested that a copy of the negotiation memorandum be furnished to us in accordance with existing procurement regulations, and for the purpose of monitoring and improving our services to contracting officers.

f. Upon request, we are prepared to provide such explanations, additional detail or accounting counsel as may be required. Questions should be directed to Mr. D.R. Greenway of this office telephone FTS 399-4770, commercial (206) 442-4770.

Defense Contract Audit Agency

H.C. LUM
Branch Manager

NWMAR129800

DEPARTMENT OF DEFENSE

CONTRACT PRICING PROPOSAL (CHANGE ORDERS)

Form Approved
Budget Bureau No. 22R0165

This form is for use when submission of cost or pricing data *(see ASPR 3-807.3)* is required.

PAGE NUMBER: 1 | NUMBER OF PAGES: 1

NAME OF CONTRACTOR: NORTHWEST MARINE IRON WORKS

HOME OFFICE ADDRESS *(include ZIP Code)*: P.O. Box 3109, Portland, Oregon 97208

DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED: Marine Division, Swan Island, Ship Repair Yard

PRODUCT IDENTIFICATION: Personnel Berthing, Messing and Laundry Facilities

MODEL OR PART NUMBER:

NUMBER OF UNITS AFFECTED: 1

CONTRACT NUMBER: 0036

CHANGE IDENTIFICATION[1]: Serial # 6A

COST ELEMENTS	PROPOSED CHANGE ESTIMATE					
	COST OF WORK DELETED					
	ESTIMATED COST OF ALL DELETED WORK[2]	COST OF DELETED WORK ALREADY PERFORMED[3]	NET COST TO BE DELETED[4]	COST OF WORK ADDED[5]	NET COST OF CHANGE[6]	REFERENCE[7]
1. DIRECT MATERIAL[8] — a. PURCHASED PARTS[9]						
1. DIRECT MATERIAL[8] — b. SUBCONTRACTED ITEMS[10]						
1. DIRECT MATERIAL[8] — c. OTHER MATERIAL — (1) RAW MATERIAL[11]						
1. DIRECT MATERIAL[8] — c. OTHER MATERIAL — (2) STANDARD COMMERCIAL ITEMS[12]						
1. DIRECT MATERIAL[8] — c. OTHER MATERIAL — (3) INTERDIVISIONAL TRANSFERS *(At other than cost)*[13]						
2. MATERIAL OVERHEAD[14]						
3. INTERDIVISIONAL TRANSFERS AT COST[15]						
4. DIRECT ENGINEERING LABOR[16]						
5. ENGINEERING OVERHEAD[14]						
6. DIRECT MANUFACTURING LABOR[16]						
7. MANUFACTURING OVERHEAD[14]						
8. OTHER COSTS[17]						
9. *SUBTOTALS*						
10. GENERAL AND ADMINISTRATIVE EXPENSES[14]						
11. ROYALTIES[18]						
12. FEDERAL EXCISE TAX[19]						
13. *SUBTOTALS*						
14. PROFIT OR FEE				171,207.00	171,207.00	
15. TOTAL PRICE *(Amount)*				171,207.00	171,207.00	

. WILL THE AMOUNT OF GOVERNMENT PROPERTY REQUIRED IN THE PERFORMANCE OF THIS CONTRACT BE REVISED DUE TO THIS CHANGE?
☐ YES ☒ NO *IF YES, IDENTIFY ON A SEPARATE PAGE.*

I. DID YOU COMPUTE "ESTIMATED COST OF ALL WORK DELETED" IN ACCORDANCE WITH FOOTNOTE 3?
☒ YES ☐ NO *IF NO, EXPLAIN AND JUSTIFY ON A SEPARATE PAGE.*

II. DOES THIS COST SUMMARY CONFORM WITH THE COST PRINCIPLES SET FORTH IN ASPR, SECTION XV *(see 3-807.2(c)(2))*?
☒ YES ☐ NO *IF NO, EXPLAIN ON A SEPARATE PAGE.*

EMARKS

The above price is predicated upon a daily rental of the barge in the sum of $3,003.63. This sum was derived from the five-way cost breakdown for the similar items as bid on the USS MEYERKORD and awarded on Job Order #0036.

This proposal is submitted for use in connection with and in response to the change(s) identified above, and reflects our best estimates as of this date, in accordance with the instructions to contractors and the footnotes which follow.

YPED NAME AND TITLE: W.J. Butler, Vice President and General Manager

SIGNATURE: W J Butler

AME OF FIRM: Northwest Marine Iron Works

DATE OF SUBMISSION:

)D FORM 1 APR 68 633-5 REPLACES DD FORM 1107, 1 JUL 61, WHICH IS OBSOLETE. S/N 102-006-6700

NWMAR129801

Serial # 6A

NORTHWEST MARINE IRONWORKS — PORTLAND, OREGON

ESTIMATE FOR: Meyerkord BY: Lain DATE: 9-16-78 PAGE: OF:

ITEM	PARA	DESCRIPTION	1	2	3/4	6	7	8/10	9	11	14	17	30	35	Misc	Total Hrs.	Mat'l.	Subs.	F/E	REMARKS
992 -		Personnel Berthing, Messing & Laundry Facilities, Provide																		
		Provide facilities for 57 days.																		
3.1		Berthing, lavatory, WC's, Showers Mattresses, Pillows, Blankets, Sheets, Towels, transportation $\frac{398,590 \times 57}{250}$																		90,879.00
3.2		Personnel Messing Facilities $\frac{295,816 \times 57}{250}$																		67,446.00
3.4.		Laundry Facilities $\frac{56,500 \times 57}{250}$																		12,882.00
																				171,207.00

5/476 M H BUSINESS FORMS 5/175

NWMAR129802

10/11/79

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
Code 410
28 September 1979

MEMORANDUM

From: R. R. Morrison, SUPSHIP Code 410
To: Dale N. Wahl, Northwest Marine Iron Works

Subj: MSRC N62799-70-C-0013, Recent DCAA Audit of Billing Rates

Ref: (a) NMIW ltr DNW:bl of 19 Sep 1979

Encl: (1) DCAA Audit Report No. 7261-9P230004-001 dtd 24 Jul 1979

1. As requested by reference (a), enclosure (1) is forwarded.

R. R. MORRISON

OFFICIAL USE ONLY

AUDIT REPORT ON EVALUATION OF
PROPOSED PRICING RATES FOR
MASTER SHIP REPAIR CONTRACT N62799-70-C-0013
SUBMITTED BY
NORTHWEST MARINE IRON WORKS
PORTLAND, OREGON

The Defense Contract Audit Agency has no objection to the release of this report, at the discretion of the Contracting Officer, to the duly authorized representatives of Northwest Marine Iron Works.

Release to the public of any contractor information contained in this report is prohibited by 18 USC 1905.

DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
SEATTLE BRANCH OFFICE
SEATTLE, WASHINGTON

AUDIT REPORT NO. 7261-9P230004-001

DATE OF REPORT 24 July 1979

OFFICIAL USE ONLY

ENCLOSURE (1)

NWMAR129804

OFFICIAL USE ONLY

DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
SEATTLE BRANCH OFFICE
815 AIRPORT WAY SOUTH
SEATTLE, WASHINGTON 98134

IN REPLY REFER TO
7261 762.23
9P230004
(0577)

24 July 1979

SUBJECT: Audit Report on Evaluation of
Proposed Pricing Rates for
Master Ship Repair Contract N62799-70-C-0013
Northwest Marine Iron Works
Portland, Oregon
Audit Report No. 7261-9P230004-001

TO: Supervisor of Shipbuilding, Conversion,
and Repair, USN
13th Naval District
Seattle, Washington 98115

1. Purpose of Audit.

a. As requested in your letter dated 8 June 1979, reference 7000 Ser. 405-3628, we have performed an evaluation of Northwest Marine Iron Work's proposed billing rates for straight time and overtime labor under Master Ship Repair Contract No. N62799-70-C-0013. The rates will be applicable after 1 July 1979.

b. The evaluation was performed in accordance with generally accepted auditing standards and included such tests of the contractor's data and records and such other auditing procedures as were considered necessary in the circumstances, except as noted in paragraph 2. The cost principles contained in DAR, Section XV, Part 2, were used as criteria in the evaluation of proposed costs.

c. This report may not be released to any Federal agency outside the Department of Defense without the approval of Headquarters, DCAA, except to an agency requesting the report in negotiating or administering its contract.

2. Results of Audit.

The results of audit are summarized and discussed as follows:

OFFICIAL USE ONLY

	Proposed		Results of Audit				
			Rates Questioned		Rates Unsupported		
Cost Element	Straight Time	Overtime	Straight Time	Overtime	Straight Time	Overtime	Note
Labor	$10.18	$20.36	$	$	$	$	a
Overhead	9,42	9.42	.11	.11			b
G&A Expense	1.52	1.52			.49	.49	c
Subtotal	$21.12	$31.30	$ .11	$ .11	$ .49	$ .49	
Non-Working Supervision	4.01	5.95	.02	.02			d
Total	$25.13	$37.25	$ .13	$ .13	$ .49	$ .49	

a. The proposed labor rates are based on actual labor costs recorded from June 1978 through April 1979. The actual average rates were adjusted retroactively for cost of living increases during the period and a base rate increase effective 1 July 1978. We take no exception to the proposed rate. The proposed rate should be applied only to estimated direct production labor hours, excluding hours for leadmen and foremen, which the contractor also charges direct to jobs. Costs for the leadmen and foremen are recovered through the non-working supervision element.

b. The proposed overhead rate is based on direct labor hours and overhead cost experience from June 1978 through April 1979. The proposed expenses included adjustments for fringe benefits and payroll tax increases.

Audit adjustments of proposed expenses were made for (i) depreciation expenses which are not considered to be allocable to direct labor hours and (ii) errors in calculating proposed, retroactive fringe benefit cost of living adjustments.

NWMAR129806

Proposed and Questioned costs are summarized as follows:

Description	Proposed	Questioned	Note
Ship Division			
Payroll Taxes	$3,316,842	$	
Overhead	3,577,955	82,500	(1)
Fringe Benefit Adjustment	146,577	4,799	(2)
Fringe Increment	21,387		
Total	$7,062,761	$87,299	

(1) Overhead costs questioned is depreciation for a barracks barge which was discussed in DCAA Audit Report No. 7261-9P210007-100 dated 19 December 1978. The barge is charged to contracts at a daily usage rate. Therefore, allocation of depreciation expense to labor hours is not considered appropriate.

(2) The proposed increases in fringe benefits included mathematical errors in the contractor's cost calculations. Proposed and audit computed amounts are as follows:

Description	Amounts
Proposed	$146,577
Per Audit	141,778
Cost Questioned	$ 4,799

c. The proposed G&A rate is based on actual costs recorded from June 1978 through April 1979 adjusted for estimated profit sharing expense. The portion of the rate which is related to profit sharing is unsupported as the actual amount will not be determined until about mid-August 1979 after the contractor's book are closed for its fiscal year ending on 31 May 1979.

The unsupported rate of $.49 is the total profit sharing amount over total labor hours ($435,417/880,237 = $.49).

NWMAR129807

d. The contractor proposed non-working supervision at 19 percent of all the elements of the proposed rate. This factor is based on the relationship between non-working supervision labor hours to total direct labor hours for the eleven months ended 30 April 1979. No exception was taken to the proposed factor.

Costs questioned were computed by applying the proposed factor to questioned overhead rate ($.11 x 19% = $.02).

4. Conclusions.

a. It is our opinion that the offeror has submitted cost or pricing data not adequate in all respects (see comments in paragraph 2.c.). We consider the cost or pricing data as submitted by the offeror to be acceptable as a basis for negotiation of a price. This statement should not be interpreted to mean that the data are necessarily accurate, complete, and current in all respects in accordance with Public Law 87-653, since a postaward audit review may disclose evidence not now discernible.

b. Audit matters were discussed with Mr. D. Weitzel, Accounting Manager, to the extent deemed necessary to insure the accuracy of our findings. The contractor's reactions to specific audit exceptions are discussed in the Results of Audit.

c. Information contained in this report should not be used for purposes other than for which it was intended without prior consultation with us regarding its applicability.

d. It is requested that a copy of the negotiation memorandum be furnished to us in accordance with existing procurement regulations, and for the purpose of monitoring and improving our services to contracting officers.

e. Upon request, we are prepared to provide such explanations, additional detail, or accounting counsel as may be required. Questions should be directed to Mr. R. Say of our Portland Office, telephone (FTS) 423-2800 or (503) 221-2800, or to Mr. D. Greenway of our Seattle Office, telephone (FTS) 399-4770 or (206) 442-4770.

Defense Contract Audit Agency

H.C. LUM, Branch Manager

NWMAR129808

STANDARD FORM 33, NOV. 1969
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

NSCPS OP No. 1 (Rev. 5-76)

SOLICITATION, OFFER, AND AWARD

3. CERTIFIED FOR NATIONAL DEFENSE UNDER BDSA REG. 2 AND/OR DMS REG. 1.
RATING: DO-C9

4. PAGE 1 OF 38

1. CONTRACT (Proc. Inst. Ident.) NO.
N00406

2. SOLICITATION NO. N00406 78-R-0958
☐ ADVERTISED (IFB) ☒ NEGOTIATED (RFP)

5. DATE ISSUED
78 SEP 13

6. REQUISITION/PURCHASE REQUEST NO.
11-N00251-8193-1564

7. ISSUED BY CODE N00406

CONTRACTING OFFICER (Code 202)
NAVAL SUPPLY CENTER, PUGET SOUND
BREMERTON, WA 98314

8. ADDRESS OFFER TO (If other than Block 7)

COMMANDING OFFICER (Code 200)
NAVAL SUPPLY CENTER, PUGET SOUND
BREMERTON, WA 98314

SOLICITATION

9. Sealed offers in original and 1 copies for furnishing the supplies or services described in the Schedule will be received at the place specified in block 8, OR IF HAND-CARRIED, IN THE DEPOSITARY LOCATED IN Bldg. 467, 2nd Fl. or PSNS Info. & Reception Ctr., 223 - 1st, Bremerton, WA until 10:30 AM on 78 SEP 28 (Time, Zone, and Date). If this is an advertised solicitation, offers will be publicly opened at that time. CAUTION—LATE OFFERS. See par. 8 of Solicitation Instructions and Conditions.

All offers are subject to the following:
1. The Solicitation Instructions and Conditions, SF 33-A Mar 1969 Ed.
2. The General Provisions, SF 32 Nov 1969 edition. (Incorporated therein by reference.)
3. The Schedule included below and/or attached hereto.
4. Such other provisions, representations, certifications, and specifications as are attached or incorporated herein by reference. (Attachments are listed in the Schedule.)

FOR INFORMATION CALL (Name and Telephone No.) (No collect calls.): Mrs. Pat Harden 206/478-7174

TABLE OF CONTENTS

The following checked sections are contained in the contract:

(X)	SEC		PAGE	(X)	SEC		PAGE	(X)	SEC		PAGE
		PART I-GENERAL INSTRUCTIONS				PART II-THE SCHEDULE				PART III-GENERAL PROVISIONS	
	A	COVER SHEET	—	X	E	SUPPLIES/SERV'C'S&PRICES	19				
				X	F	DESCRIPT'N/SPECIFICAT'N	20	X	L	GENERAL PROVISIONS	36
X	B	CONTRACT FORM AND REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFEROR.	5	X	G	PRESERVATION/PACKAGING/PACKING	23			PART IV-LIST OF DOCUMENTS AND ATTACHMENTS	
				X	H	DELIV'S OR PERFORMANCES	24				
				X	I	INSPECT'N & ACCEPTANCE	24				
X	C	INSTRUCTIONS, CONDITIONS, & NOTICES TO OFFERORS.	11	X	J	SPECIAL PROVISIONS	25				
X	D	EVALUAT'N&AWARD FACTORS	18	X	K	CONTRACT ADMINISTRATION DATA	33	X	M	LIST OF DOCUMENTS AND ATTACHMENTS	38

PURPOSE

PRODN, J.O. 99310-45010-000, Shop 20A Orig Code 2040 ----- ANNUAL REQUIREMENT

CJ

OFFER (NOTE: Reverse Must Also Be Fully Completed By Offeror)

In compliance with the above, the undersigned offers and agrees, if this offer is accepted within ____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered, at the price set opposite each item, delivered at the designated point(s), within the time specified in the Schedule.

16. DISCOUNT FOR PROMPT PAYMENT (See Par. 9 on SF 33-A)
____% 10 CALENDAR DAYS; ____% 20 CALENDAR DAYS; ____% 30 CALENDAR DAYS; ____% ____ CALENDAR DAYS.

17. OFFEROR NAME & ADDRESS (Street, city, county, state, & ZIP Code) CODE ____ FACILITY CODE ____

Area Code and Telephone No.:

☐ Check If Remittance Address Is Different From Above—Enter Such Address In Schedule.

18. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or Print)

19. SIGNATURE

20. OFFER DATE

AWARD (To Be Completed By Government)

21. ACCEPTED AS TO ITEMS NUMBERED

22. AMOUNT

23. ACCOUNTING AND APPROPRIATION DATA

24. SUBMIT INVOICES (4 copies unless otherwise specified) TO ADDRESS SHOWN IN BLOCK ____

25. NEGOTIATED PURSUANT TO ☐ 10 U.S.C. 2304(a)( ) ☐ 41 U.S.C. 252(c)( )

26. ADMINISTERED BY (If other than block 7) CODE ____

27. PAYMENT WILL BE MADE BY CODE ____

28. NAME OF CONTRACTING OFFICER (Type or Print)

29. UNITED STATES OF AMERICA
BY: ____ (Signature of Contracting Officer)

30. AWARD DATE

33-128 Award will be made on this form, or on Standard Form 26, or by other official written notice. S/N 0109-200-3104

ANNUAL - VALVE & PUMP REPAIR

NWMAR129809

REPRESENTATIONS, CERTIFICATIONS, AND ACKNOWLEDGMENTS

The Offeror represents and certifies as part of his offer that: *(Check or complete all applicable boxes or blocks.)*

1. SMALL BUSINESS *(See par. 14 on SF 33–A.)*
He ☐ is, ☐ is not, a small business concern. If offeror is a small business concern and is not the manufacturer of the supplies offered, he also represents that all supplies to be furnished hereunder ☐ will, ☐ will not, be manufactured or produced by a small business concern in the United States, its possessions, or Puerto Rico.

2. REGULAR DEALER—MANUFACTURER *(Applicable only to supply contracts exceeding $10,000.)*
He is a ☐ regular dealer in, ☐ manufacturer of, the supplies offered.

3. CONTINGENT FEE *(See par. 15 on SF 33–A.)*
(a) He ☐ has, ☐ has not, employed or retained any company or person *(other than a full-time, bona fide employee working solely for the offeror)* to solicit or secure this contract, and (b) he ☐ has, ☐ has not, paid or agreed to pay any company or person *(other than a full-time bona fide employee working solely for the offeror)* any fee, commission, percentage, or brokerage fee contingent upon or resulting from the award of this contract; and agrees to furnish information relating to (a) and (b) above, as requested by the Contracting Officer. *(For interpretation of the representation, including the term "bona fide employee," see Code of Federal Regulations, Title 41, Subpart 1–1.5.)*

4. TYPE OF BUSINESS ORGANIZATION
He operates as ☐ an individual, ☐ a partnership, ☐ a nonprofit organization, ☐ a corporation, incorporated under the laws of the State of _____

5. AFFILIATION AND IDENTIFYING DATA *(Applicable only to advertised solicitations.)*
Each offeror shall complete (a) and (b) if applicable, and (c) below:
(a) He ☐ is, ☐ is not, owned or controlled by a parent company. *(See par. 16 on SF 33–A.)*
(b) If the offeror is owned or controlled by a parent company, he shall enter in the blocks below the name and main office address of the parent company:

Name of Parent company and main office address _____
(include ZIP Code) _____

(c) Employer's identification number *(See par. 17 on SF 33–A.)* _____ *(Offeror's E.I. No.)* _____ *(Parent Company's E.I. No.)*

6. EQUAL OPPORTUNITY
He ☐ has, ☐ has not, participated in a previous contract or subcontract subject either to the Equal Opportunity clause herein or the clause originally contained in section 301 of Executive Order No. 10925, or the clause contained in section 201 of Executive Order No. 11114; that he ☐ has, ☐ has not, filed all required compliance reports; and that representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained prior to subcontract awards. *(The above representation need not be submitted in connection with contracts or subcontracts which are exempt from the clause.)*

7. BUY AMERICAN CERTIFICATE
The offeror hereby certifies that each end product, except the end products listed below, is a domestic source end product (as defined in the *clause* entitled "Buy American Act"); and that components of unknown origin have been considered to have been mined, produced, or manufactured outside the United States.

EXCLUDED END PRODUCTS	COUNTRY OF ORIGIN

8. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION *(See par. 18 on SF 33–A.)*
(a) By submission of this offer, the offeror certifies, and in the case of a joint offer, each party thereto certifies as to its own organization, that in connection with this procurement:
(1) The prices in this offer have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other offeror or with any competitor;
(2) Unless otherwise required by law, the prices which have been quoted in this offer have not been knowingly disclosed by the offeror and will not knowingly be disclosed by the offeror prior to opening in the case of an advertised procurement or prior to award in the case of a negotiated procurement, directly or indirectly to any other offeror or to any competitor; and
(3) No attempt has been made or will be made by the offeror to induce any other person or firm to submit or not to submit an offer for the purpose of restricting competition.
(b) Each person signing this offer certifies that:
(1) He is the person in the offeror's organization responsible within that organization for the decision as to the prices being offered herein and that he has not participated, and will not participate, in any action contrary to (a) (1) through (a) (3) above; or
(2) (i) He is not the person in the offeror's organization responsible within that organization for the decision as to the prices being offered herein but that he has been authorized in writing to act as agent for the persons responsible for such decision in certifying that such persons have not participated, and will not participate, in any action contrary to (a) (1) through (a) (3) above, and as their agent does hereby so certify; and (ii) he has not participated, and will not participate, in any action contrary to (a) (1) through (a) (3) above.

9. CERTIFICATION OF NONSEGREGATED FACILITIES
(Applicable to (1) contracts, (2) subcontracts, and (3) agreements with applicants who are themselves performing federally assisted construction contracts, exceeding $10,000 which are not exempt from the provisions of the Equal Opportunity clause.)
By the submission of this bid, the bidder, offeror, applicant, or subcontractor certifies that he does not maintain or provide for his employees any segregated facilities at any of his establishments, and that he does not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. He certifies further that he will not maintain or provide for his employees any segregated facilities at any of his establishments, and that he will not permit his employees to perform their services at any location, under his control, where segregated facilities are maintained. The bidder, offeror, applicant, or subcontractor agrees that a breach of this certification is a violation of the Equal Opportunity clause in this contract. As used in this certification, the term "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees which are segregated by explicit directive or are in fact segregated on the basis of race, color, religion or national origin, because of habit, local custom, or otherwise. He further agrees that (except where he has obtained identical certifications from proposed subcontractors for specific time periods) he will obtain identical certifications from proposed subcontractors prior to the award of subcontracts exceeding $10,000 which are not exempt from the provisions of the Equal Opportunity clause; that he will retain such certifications in his files; and that he will forward the following notice to such proposed subcontractors (except where the proposed subcontractors have submitted identical certifications for specific time periods):
Notice to prospective subcontractors of requirement for certifications of nonsegregated facilities.
A Certification of Nonsegregated Facilities must be submitted prior to the award of a subcontract exceeding $10,000 which is not exempt from the provisions of the Equal Opportunity clause. The certification may be submitted either for each subcontract or for all subcontracts during a period (i.e., quarterly, semiannually, or annually). *NOTE: The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.*

ACKNOWLEDGMENT OF AMENDMENTS	AMENDMENT NO.	DATE	AMENDMENT NO.	DATE
The offeror acknowledges receipt of amendments to the Solicitation for Offers and related documents numbered and dated as follows:				

NOTE.—Offers must set forth full, accurate, and complete information as required by this Solicitation (including attachments). The penalty for making false statements in offers is prescribed in 18 U.S.C. 1001.

NWMAR129810

SOLICITATION INSTRUCTIONS AND CONDITIONS

1. DEFINITIONS.
As used herein:
(a) The term "solicitation" means Invitation for Bids (IFB) where the procurement is advertised, and Request for Proposal (RFP) where the procurement is negotiated.
(b) The term "offer" means bid where the procurement is advertised, and proposal where the procurement is negotiated.
(c) For purposes of this solicitation and Block 2 of Standard Form 33, the term "advertised" includes Small Business Restricted Advertising and other types of restricted advertising.

2. PREPARATION OF OFFERS.
(a) Offerors are expected to examine the drawings, specifications, Schedule, and all instructions. Failure to do so will be at the offeror's risk.
(b) Each offeror shall furnish the information required by the solicitation. The offeror shall sign the solicitation and print or type his name on the Schedule and each Continuation Sheet thereof on which he makes an entry. Erasures or other changes must be initialed by the person signing the offer. Offers signed by an agent are to be accompanied by evidence of his authority unless such evidence has been previously furnished to the issuing office.
(c) Unit price for each unit offered shall be shown and such price shall include packing unless otherwise specified. A total shall be entered in the Amount column of the Schedule for each item offered. In case of discrepancy between a unit price and extended price, the unit price will be presumed to be correct, subject, however, to correction to the same extent and in the same manner as any other mistake.
(d) Offers for supplies or services other than those specified will not be considered unless authorized by the solicitation.
(e) Offeror must state a definite time for delivery of supplies or for performance of services unless otherwise specified in the solicitation.
(f) Time, if stated as a number of days, will include Saturdays, Sundays and holidays.
(g) Code boxes are for Government use only.

3. EXPLANATION TO OFFERORS. Any explanation desired by an offeror regarding the meaning or interpretation of the solicitation, drawings, specifications, etc., must be requested in writing and with sufficient time allowed for a reply to reach offerors before the submission of their offers. Oral explanations or instructions given before the award of the contract will not be binding. Any information given to a prospective offeror concerning a solicitation will be furnished to all prospective offerors as an amendment of the solicitation, if such information is necessary to offerors in submitting offers on the solicitation or if the lack of such information would be prejudicial to uninformed offerors.

4. ACKNOWLEDGMENT OF AMENDMENTS TO SOLICITATIONS. Receipt of an amendment to a solicitation by an offeror must be acknowledged (a) by signing and returning the amendment, (b) on the reverse of Standard Form 33, or (c) by letter or telegram. Such acknowledgment must be received prior to the hour and date specified for receipt of offers.

5. SUBMISSION OF OFFERS.
(a) Offers and modifications thereof shall be enclosed in sealed envelopes and addressed to the office specified in the solicitation. The offeror shall show the hour and date specified in the solicitation for receipt, the solicitation number, and the name and address of the offeror on the face of the envelope.
(b) Telegraphic offers will not be considered unless authorized by the solicitation; however, offers may be modified by telegraphic notice, provided such notice is received prior to the hour and date specified for receipt. (However, see par. 8.)
(c) Samples of items, when required, must be submitted within the time specified, and unless otherwise specified by the Government, at no expense to the Government. If not destroyed by testing, samples will be returned at offeror's request and expense, unless otherwise specified by the solicitation.

6. FAILURE TO SUBMIT OFFER. If no offer is to be submitted, do not return the solicitation unless otherwise specified. A letter or postcard should be sent to the issuing office advising whether future solicitations for the type of supplies or services covered by this solicitation are desired. Failure of the recipient to offer, or to notify the issuing office that future solicitations are desired, may result in removal of the name of such recipient from the mailing list for the type of supplies or services covered by the solicitation.

7. MODIFICATION OR WITHDRAWAL OF OFFERS.
(a) If this solicitation is advertised, offers may be modified or withdrawn by written or telegraphic notice received prior to the exact hour and date specified for receipt of offers. An offer also may be withdrawn in person by an offeror or his authorized representative, provided his identity is made known and he signs a receipt for the offer, but only if the withdrawal is made prior to the exact hour and date set for receipt of offers. (However, see par. 8.)

(b) If this solicitation is negotiated, offers may be modified (subject to par. 8, when applicable) or withdrawn by written or telegraphic notice received at any time prior to award. Offers may be withdrawn in person by an offeror or his authorized representative, provided his identity is made known and he signs a receipt for the offer prior to award.

8. LATE OFFERS AND MODIFICATIONS OR WITHDRAWALS. (This paragraph applies to all advertised solicitations. In the case of Department of Defense negotiated solicitations, it shall also apply to late offers and modifications (other than the normal revisions of offers by selected offerors during the usual conduct of negotiations with such offerors) but not to withdrawals of offers. Unless otherwise provided, this paragraph does not apply to negotiated solicitations issued by civilian agencies.)

(a) Offers and modifications of offers (or withdrawals thereof, if this solicitation is advertised) received at the office designated in the solicitation after the exact hour and date specified for receipt will not be considered unless: (1) they are received before award is made; and either (2) they are sent by registered mail, or by certified mail for which an official dated post office stamp (postmark) on the original Receipt for Certified Mail has been obtained and it is determined by the Government that the late receipt was due solely to delay in the mails for which the offeror was not responsible; or (3) if submitted by mail (or by telegram if authorized) it is determined by the Government that the late receipt was due solely to mishandling by the Government after receipt at the Government installation; provided, that timely receipt at such installation is established upon examination of an appropriate date or time stamp (if any) of such installation, or of other documentary evidence of receipt (if readily available) within the control of such installation or of the post office serving it. However, a modification of an offer which makes the terms of an otherwise successful offer more favorable to the Government will be considered at any time it is received and may thereafter be accepted.

(b) Offerors using certified mail are cautioned to obtain a Receipt for Certified Mail showing a legible, dated postmark and to retain such receipt against the chance that it will be required as evidence that a late offer was timely mailed.

(c) The time of mailing of late offers submitted by registered or certified mail shall be deemed to be the last minute of the date shown in the postmark on the registered mail receipt or registered mail wrapper or on the Receipt for Certified Mail unless the offeror furnishes evidence from the post office station of mailing which establishes an earlier time. In the case of certified mail, the only acceptable evidence is as follows: (1) where the Receipt for Certified Mail identifies the post office station of mailing, evidence furnished by the offeror which establishes that the business day of that station ended at an earlier time, in which case the time of mailing shall be deemed to be the last minute of the business day of that station; or (2) an entry in ink on the Receipt for Certified Mail showing the time of mailing and the initials of the postal employee receiving the item and making the entry, with appropriate written verification of such entry from the post office station of mailing, in which case the time of mailing shall be the time shown in the entry. If the postmark on the original Receipt for Certified Mail does not show a date, the offer shall not be considered.

9. DISCOUNTS. (a) Notwithstanding the fact that a blank is provided for a ten (10) day discount, prompt payment discounts offered for payment within less than twenty (20) calendar days will not be considered in evaluating offers for award, unless otherwise specified in the solicitation. However, offered discounts of less than 20 days will be taken if payment is made within the discount period, even though not considered in the evaluation of offers.

(b) In connection with any discount offered, time will be computed from date of delivery of the supplies to carrier when delivery and acceptance are at point of origin, or from date of delivery at destination or port of embarkation when delivery and

 NOTE: Unless otherwise specified, this form (SF-33A) is designated as Pages 3 and 4 of this solicitation.

NWMAR129811

acceptance are at either of those points, or from the date correct invoice or voucher is received in the office specified by the Government, if the latter date is later than date of delivery. Payment is deemed to be made for the purpose of earning the discount on the date of mailing of the Government check.

10. AWARD OF CONTRACT. (a) The contract will be awarded to that responsible offeror whose offer conforming to the solicitation will be most advantageous to the Government, price and other factors considered.

(b) The Government reserves the right to reject any or all offers and to waive informalities and minor irregularities in offers received.

(c) The Government may accept any item or group of items of any offer, unless the offeror qualifies his offer by specific limitations. UNLESS OTHERWISE PROVIDED IN THE SCHEDULE, OFFERS MAY BE SUBMITTED FOR ANY QUANTITIES LESS THAN THOSE SPECIFIED; AND THE GOVERNMENT RESERVES THE RIGHT TO MAKE AN AWARD ON ANY ITEM FOR A QUANTITY LESS THAN THE QUANTITY OFFERED AT THE UNIT PRICES OFFERED UNLESS THE OFFEROR SPECIFIES OTHERWISE IN HIS OFFER.

(d) A written award (or Acceptance of Offer) mailed (or otherwise furnished) to the successful offeror within the time for acceptance specified in the offer shall be deemed to result in a binding contract without further action by either party.

The following paragraphs (e) through (h) apply only to negotiated solicitations:

(e) The Government may accept within the time specified therein, any offer (or part thereof, as provided in (c) above), whether or not there are negotiations subsequent to its receipt, unless the offer is withdrawn by written notice received by the Government prior to award. If subsequent negotiations are conducted, they shall not constitute a rejection or counter offer on the part of the Government.

(f) The right is reserved to accept other than the lowest offer and to reject any or all offers.

(g) The Government may award a contract, based on initial offers received, without discussion of such offers. Accordingly, each initial offer should be submitted on the most favorable terms from a price and technical standpoint which the offeror can submit to the Government.

(h) Any financial data submitted with any offer hereunder or any representation concerning facilities or financing will not form a part of any resulting contract; provided, however, that if the resulting contract contains a clause providing for price reduction for defective cost or pricing data, the contract price will be subject to reduction if cost or pricing data furnished hereunder is incomplete, inaccurate, or not current.

11. GOVERNMENT-FURNISHED PROPERTY. No material, labor, or facilities will be furnished by the Government unless otherwise provided for in the solicitation.

12. LABOR INFORMATION. General information regarding the requirements of the Walsh-Healey Public Contracts Act (41 U.S.C. 35-45), the Contract Work Hours Standards Act (40 U.S.C. 327-330), and the Service Contract Act of 1965 (41 U.S.C. 351-357) may be obtained from the Department of Labor, Washington, D.C. 20210, or from any regional office of that agency. Requests for information should include the solicitation number, the name and address of the issuing agency, and a description of the supplies or services.

13. SELLER'S INVOICES. Invoices shall be prepared and submitted in quadruplicate (one copy shall be marked "original") unless otherwise specified. Invoices shall contain the following information: Contract and order number (if any), item numbers, description of supplies or services, sizes, quantities, unit prices, and extended totals. Bill of lading number and weight of shipment will be shown for shipments made on Government bills of lading.

14. SMALL BUSINESS CONCERN. A small business concern for the purpose of Government procurement is a concern, including its affiliates, which is independently owned and operated, is not dominant in the field of operation in which it is submitting offers on Government contracts, and can further qualify under the criteria concerning number of employees, average annual receipts, or other criteria, as prescribed by the Small Business Administration. (See Code of Federal Regulations, Title 13, Part 121, as amended, which contains detailed industry definitions and related procedures.)

15. CONTINGENT FEE. If the offeror, by checking the appropriate box provided therefor, has represented that he has employed or retained a company or person (other than a full-time bona fide employee working solely for the offeror) to solicit or secure this contract, or that he has paid or agreed to pay any fee, commission, percentage, or brokerage fee to any company or person contingent upon or resulting from the award of this contract, he shall furnish, in duplicate, a complete Standard Form 119, Contractor's Statement of Contingent or Other Fees. If offeror has previously furnished a completed Standard Form 119 to the office issuing this solicitation, he may accompany his offer with a signed statement (a) indicating when such completed form was previously furnished, (b) identifying by number the previous solicitation or contract, if any, in connection with which such form was submitted, and (c) representing that the statement in such form is applicable to this offer.

16. PARENT COMPANY. A parent company for the purpose of this offer is a company which either owns or controls the activities and basic business policies of the offeror. To own another company means the parent company must own at least a majority (more than 50 percent) of the voting rights in that company. To control another company, such ownership is not required; if another company is able to formulate, determine, or veto basic business policy decisions of the offeror, such other company is considered the parent company of the offeror. This control may be exercised through the use of dominant minority voting rights, use of proxy voting, contractual arrangements, or otherwise.

17. EMPLOYER'S IDENTIFICATION NUMBER. (Applicable only to advertised solicitations.) The offeror shall insert in the applicable space on the offer form, if he has no parent company, his own Employer's Identification Number (E.I. No.) (Federal Social Security Number used on Employer's Quarterly Federal Tax Return, U.S. Treasury Department Form 941), or, if he has a parent company, the Employer's Identification Number of his parent company.

18. CERTIFICATION OF INDEPENDENT PRICE DETERMINATION. (a) This certification on the offer form is not applicable to a foreign offeror submitting an offer for a contract which requires performance or delivery outside the United States, its possessions, and Puerto Rico.

(b) An offer will not be considered for award where (a)(1), (a)(3), or (b) of the certification has been deleted or modified. Where (a)(2) of the certification has been deleted or modified, the offer will not be considered for award unless the offeror furnishes with the offer a signed statement which sets forth in detail the circumstances of the disclosure and the head of the agency, or his designee, determines that such disclosure was not made for the purpose of restricting competition.

19. ORDER OF PRECEDENCE. In the event of an inconsistency between provisions of this solicitation, the inconsistency shall be resolved by giving precedence in the following order: (a) the Schedule; (b) Solicitation Instructions and Conditions; (c) General Provisions; (d) other provisions of the contract, whether incorporated by reference or otherwise; and (e) the specifications.

U.S. GOVERNMENT PRINTING OFFICE 648—16—81037-1 401-234

NWMAR129812

NAME OF OFFEROR OR CONTRACTOR

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B CONTRACT FORM AND REPRESENTATIONS, CERTIFICATIONS, AND OTHER STATEMENTS OF OFFEROR

B1 PREFERENCE FOR LABOR SURPLUS AREA CONCERNS (1976 JUL)

This procurement is not set aside for labor surplus area concerns. However, the bidder's/offeror's status as such a concern may affect entitlement to award in case of tie bids/offers or bid/offer evaluation in accordance with the Buy American clause of this solicitation. In order to have his entitlement to a preference determined if those circumstances should apply, the bidder/offeror must:

(i) furnish with his bid/offer, evidence that he or his first-tier subcontractor is a certified-eligible concern with a first preference in accordance with 29 CFR 8.7(b) and 8.9(c) or a certified-eligible concern with a second preference in accordance with 29 CFR 8.7(c) and 8.9(d), and identify below the address at which the costs he will incur on account of manufacturing or production (by himself if a certified concern or by certified concerns acting as first-tier subcontractors) amount to more than twenty-five percent (25%) of the contract price, or

(ii) identify below the persistent or substantial labor surplus area in which the costs he will incur on account of manufacturing or production (by himself or his first-tier subcontractors) amount to more than fifty percent (50%) of the contract price. (If the bidder/offeror proposes to qualify as a persistent or substantial labor surplus area concern by including costs to be incurred by a certified concern not located in a labor surplus area, evidence of such certification must be furnished.)

Failure to furnish evidence of certification by the Secretary of Labor if applicable, and to identify the locations as specified above will preclude consideration of the bidder/offeror as a labor surplus area concern. Bidder/offeror agrees that if, as a labor surplus area concern, he is awarded a contract for which he would not have qualified in the absence of such status, he will perform the contract or cause it to be performed, in accordance with the obligations which such status entails.

B1b MINORITY BUSINESS ENTERPRISE (1976 OCT)

The bidder/offeror represents that he ( ) is, (X) is not, a minority business enterprise. A minority business enterprise is defined as a "business, at least fifty percent (50%) of which is owned by minority group members or, in case of publicly owned businesses, at least fifty-one percent (51%) of the stock of which is owned by minority group members." For the purpose of this definition, minority group members are Negroes, Spanish-speaking American persons, American-Orientals, American Indians, American Eskimos, and American-Aleuts.

B3 REQUIREMENT FOR TECHNICAL DATA CERTIFICATION (1974 APR)

ASPR 7-2003.66 is hereby incorporated by reference.

NAME OF OFFEROR OR CONTRACTOR

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B4 DISCLOSURE STATEMENT--COST ACCOUNTING PRACTICES AND CERTIFICATION (1975 DEC)

Any contract in excess of $100,000 resulting from this solicitation except (i) when the price negotiated is based on: (A) established catalog or market prices of commercial items sold in substantial quantities to the general public, or (B) prices set by law or regulation, or (ii) contracts which are otherwise exempt (see 4 CFR 331.30(b)) shall be subject to the requirements of the Cost Accounting Standards Board. Any offeror submitting a proposal which, [redacted], will result in a contract subject to the requirements of the Cost Accounting Standards Board [redacted] as a condition of contracting, [redacted] as required by regulations of the Board. The Disclosure Statement must be submitted as a part of the offeror's proposal under this solicitation (see (I) below) unless (i) the offeror, together with all divisions, subsidiaries, and affiliates under common control did not receive net awards exceeding the monetary exemption for disclosure as established by the Cost Accounting Standards Board (see (II) below); (ii) the offeror exceeded the monetary exemption in the Federal Fiscal Year immediately preceding the year in which this proposal was submitted but, in accordance with the regulations of the Cost Accounting Standards Board, is not yet required to submit a Disclosure Statement (see (III) below): (iii) the offeror has already submitted a Disclosure Statement disclosing the practices used in connection with the pricing of this proposal (see (IV) below) or (iv) post-award submission has been authorized by the Contracting Officer. See 4 CFR 351.70 for submission of copy of Disclosure Statement to the Cost Accounting Standards Board.

NOT REQ'D PER MR. HARDEN OKT. BWAKL & ART TARANT. 9-25-78

CAUTION: A practice disclosed in a Disclosure Statement shall not, by virtue of such disclosure, be deemed to be a proper, approved, or agreed to practice for pricing proposals or accumulating and reporting contract performance cost data.

Check the appropriate box below.

( ) I. CERTIFICATE OF CONCURRENT SUBMISSION OF DISCLOSURE STATEMENT(S)

The offeror hereby certifies that he has submitted, as a part of his proposal under this solicitation, copies of the Disclosure Statement(s) as follows: (i) original and one copy to the cognizant Administrative Contracting Officer (ACO) (see DoD Directory of Contract Administration Components (DoD 4105.59H)) and (ii) one copy to the cognizant contract auditor.

Date of Disclosure Statement(s): _____
Name(s) and Address(es) of
Cognizant ACO(s) where filed: _____

The offeror further certifies that practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement(s).

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(X) II. CERTIFICATE OF MONETARY EXEMPTION

The offeror hereby certifies that he, together with all divisions, subsidiaries, and affiliates under common control, did not receive net awards of negotiated national defense prime contracts subject to Cost Accounting Standards totaling more than $10,000,000 in either Federal Fiscal Year 1974 or 1975 or net awards of negotiated national defense prime contracts and subcontracts subject to Cost Accounting Standards totaling more than $10,000,000 in Federal Fiscal Year 1976 or in any subsequent Federal Fiscal Year preceding the year in which this proposal was submitted.

CAUTION: Offerors who submitted or who currently are obligated to submit a Disclosure Statement under the filing requirements previously established by the Cost Accounting Standards Board are not eligible to claim this exemption unless they have received notification of final acceptance of all deliverable items on all of their prime contracts and subcontracts containing the Cost Accounting Standards clause (7-104.83(a)).

( ) III. CERTIFICATE OF INTERIM EXEMPTION

The offeror hereby certifies that (i) he first exceeded the monetary exemption for disclosure, as defined in (II) above, in the Federal Fiscal Year immediately preceding the year in which this proposal was submitted, and (ii) in accordance with the regulations of the Cost Accounting Standards Board (4 CFR 351.40(f)), he is not yet required to submit a Disclosure Statement. The offeror further certifies that if an award resulting from this proposal has not been made by March 31 of the current Federal Fiscal Year, he will immediately submit a revised certificate to the Contracting Officer, in the form specified under (I) above or (IV) below, as appropriate, to verify his submission of a completed Disclosure Statement.

CAUTION: Offerors may not claim this exemption if they are currently required to disclose because they exceeded monetary thresholds in Federal Fiscal Years prior to fiscal year 1976. Further the exemption applies only in connection with proposals submitted prior to March 31 of the year immediately following the Federal Fiscal Year in which the monetary exemption was exceeded.

( ) IV. CERTIFICATE OF PREVIOUSLY SUBMITTED DISCLOSURE STATEMENT(S)

The offeror hereby certifies that the Disclosure Statement(s) were filed as follows:

Date of Disclosure Statement(s): _____
Name(s) and Address(es) of
Cognizant ACO(s) where filed: _____

The offeror further certifies that practices used in estimating costs in pricing this proposal are consistent with the cost accounting practices disclosed in the Disclosure Statement(s).

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B4a COST ACCOUNTING STANDARDS-EXEMPTION FOR CONTRACTS OF $500,000 OR LESS (1975 MAR)

If this proposal is expected to result in the award of a contract of $500,000 or less, the offeror shall indicate whether the exemption to the Cost Accounting Standards clause (7-104.83(a)) under the provisions of 4 CFR 331.30(b)(8) is claimed. Failure to check the box below shall mean that the resultant contract is subject to the Cost Accounting Standards clause or that the offeror elects to comply with such clause.

Do not check

( ) The offeror hereby claims an exemption from the Cost Accounting Standards clause under the provisions of 4 CFR 331.30(b)(8) and certifies that he has received notification of final acceptance of all deliverable items on (i) all prime contracts or subcontracts in excess of $500,000 which contain the Cost Accounting Standards clause, and (ii) all prime contracts or subcontracts of $500,000 or less awarded after January 1, 1975, which contain the Cost Accounting Standards clause. The offeror further certifies he will immediately notify the Contracting Officer in writing in the event he is awarded any other contract or subcontract containing the Cost Accounting Standards clause subsequent to the date of this certificate but prior to the date of any award resulting from this proposal.

B4b ADDITIONAL COST ACCOUNTING STANDARDS APPLICABLE TO EXISTING CONTRACTS (1975 MAR)

The offeror shall indicate below whether award of the contemplated contract would, in accordance with paragraph (a)(3) of the Cost Accounting Standards clause (7-104.83(a)) require a change in his established cost accounting practices affecting existing contracts and subcontracts.

( ) YES (X) NO

NOTE: If the offeror has checked "yes" above, and is awarded the comptemplated contract, he will be required to comply with the Administration of Cost Accounting Standards clause (7-104.83(b)).

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B8 PERSONS AUTHORIZED TO CONDUCT NEGOTIATIONS

The offeror/quoter is requested to list below the names and telephone numbers of persons authorized to conduct negotiations.

Name	Telephone No.
R. SEMKE	503-228-8222
F THOMAN	503-228-8222

B9 PLACE OF PERFORMANCE (INSPECTION AND ACCEPTANCE AT DESTINATION)

The bidder or offeror shall furnish the following information:

A. Name and location of principal producing facility of supplies or services to be furnished:

(Name)	(Street)	(City, State, Zip Code)
NMIW	2516 NW 29TH	PORT ORE 97210

B. Name(s) and address(es) of the firm(s) or person(s) owning or operating the facility in "A" above, if other than bidder/offeror.

(Name)	(Street)	(City, State, Zip Code)

NOTE: If this procurement is a set aside for small business, bidder/offeror represents that the firm whose name is inserted above is a small business manufacturer.

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B21 IDENTIFICATION OF GOVERNMENT SURPLUS MATERIAL

/_/ Bidder/Offeror is required to check this block if the supplies being offered are unused Government surplus material (unless otherwise provided in this solicitation used supplies or components are prohibited.)

B23 ADDITIONAL EQUAL OPPORTUNITY REPRESENTATIONS AND CERTIFICATIONS

PREVIOUS CONTRACTS AND COMPLIANCE REPORTS (1973 APR)

The offeror represents that he (X) has, ( ) has not, participated in a previous contract or subcontract subject either to the Equal Opportunity clause herein or the clause originally contained in Section 301 of Executive Order No. 10925, or the clause contained in Section 201 of Executive Order No. 11114; that he (X) has, ( ) has not, filed all required compliance reports; and that representations indicating submission of required compliance reports, signed by proposed subcontractors, will be obtained prior to subcontract awards. (THE ABOVE REPRESENTATION NEED NOT BE SUBMITTED IN CONNECTION WITH CONTRACTS OR SUBCONTRACTS WHICH ARE EXEMPT FROM THE CLAUSE.)

AFFIRMATIVE ACTION PROGRAM (1973 APR)

(The following representation shall be completed by each offeror whose offer is $50,000 or more and who has 50 employees or more.) The Offeror represents that he (X) has, ( ) has not, developed and maintained at each of his establishments Equal Opportunity Affirmative Action Programs, pursuant to 41 CFR 60.2.

EQUAL EMPLOYMENT COMPLIANCE (1974 APR)

By submission of this offer, the offeror represents that, to the best of his knowledge and belief, except as noted below, up to the date of this offer no written notice such as a show cause letter, a letter indicating probable cause, or any other formal written notification citing specific deficiencies, has been received by the offeror from any Federal Government agency or representative thereof that the offeror or any of its divisions or affiliates or known first-tier subcontractors is in violation of any of the provisions of Executive Order 11246 of September 24, 1965, Executive Order 11375 of October 13, 1967, or rules and regulations of the Secretary of Labor (41 CFR, Chapter 60) and specifically as to not having an acceptable affirmative action program or being in noncompliance with any other aspect of the Equal Employment Opportunity Program. It is further agreed that should there be any change in the status or circumstances between this date and the date of expiration of this offer or any extension thereof, the Contracting Officer will be notified promptly.

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C INSTRUCTIONS, CONDITIONS AND NOTICES TO OFFERORS

C1 SOLICITATION INSTRUCTIONS AND CONDITIONS

If standard Form 33 (Solicitation, Offer, and Award) is included in this solicitation, Standard Form 33A (Solicitation Instructions & Conditions), March 1969 Edition, is incorporated herein and made a part hereof.

C1b ALTERATIONS TO SOLICITATION INSTRUCTIONS AND CONDITIONS (RFPs)

Paragraphs 7 and 8 of the SF 33A are hereby deleted and replaced by the following provision:

7-2002.4 LATE PROPOSALS, MODIFICATIONS OF PROPOSALS AND WITHDRAWALS OF PROPOSALS (1977 APR)

(a) Any proposal received at the office designated in the solicitation after the exact time specified for receipt will not be considered unless it is received before award is made; and

(i) it was sent by registered or certified mail not later than the fifth calendar day prior to the date specified for receipt of offers (e.g., an offer submitted in response to a solicitation requiring receipt of offers by the 20th of the month must have been mailed by the 15th or earlier);

(ii) it was sent by mail (or telegram if authorized) and it is determined by the Government that the late receipt was due solely to mishandling by the Government after receipt at the Government installation; or

(iii) it is the only proposal received.

(b) Any modification of a proposal, except a modification resulting from the Contracting Officer's request for "best and final" offer, is subject to the same conditions as in (a)(i) and (ii) above.

(c) A modification resulting from the Contracting Officer's request for "best and final" offer received after the time and date specified in the request will not be considered unless received before award and the late receipt is due solely to mishandling by the Government after receipt at the Government installation.

(d) The only acceptable evidence to establish:

(i) the date of mailing of a late proposal or modification sent either by registered or certified mail is the U.S. Postal Service postmark on the wrapper or on the original receipt from the U.S. Postal Service. If neither postmark shows a legible date, the proposal or modification of proposal shall be deemed to have been mailed late. (The term "postmark" means a printed, stamped, or otherwise placed impression that is readily identifiable without further action as having been supplied and affixed on the date of mailing by employees of the U.S. Postal Service.)

(ii) the time of receipt at the Government installation is the time/date stamp of such installation on the proposal wrapper or other documentary evidence of receipt maintained by the installation.

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(e) Notwithstanding the above, a late modification of an otherwise successful proposal which makes its terms more favorable to the Government will be considered at any time it is received and may be accepted.

(f) Proposals may be withdrawn by written notice or telegram received at any time prior to award. Proposals may be withdrawn in person by an offeror or his authorized representative, provided his identity is made known and he signs a receipt for the proposal prior to award.

NOTE: The term "telegram" includes mailgrams.

C4 AVAILABILITY OF SPECIFICATIONS, STANDARDS AND DESCRIPTIONS (1977 JUN)

Specifications, Standards and descriptions cited in this solicitation are available as indicated below:

(a) Unclassified Federal, Military and Other Specifications and Standards (Excluding Commercial), and Data Item Descriptions. Submit request on DD Form 1425 (Specifications and Standards Requisition) to:

Commanding Officer
U.S. Naval Publications and Forms Center
5801 Tabor Avenue
Philadelphia, PA 19120

The Acquisition Management Systems and Data Requirements Control List, DoD Directive 5000.19-L, Volume II, may be ordered on the DD Form 1425. The Department of Defense Index of Specifications and Standards (DODISS) may be purchased from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402. When requesting a specification or standard, the request shall indicate the title, number, date and any applicable amendment thereto by number and date. When requesting a data item description, the request shall cite the applicable data item number set forth in the solicitation. When DD Form 1425 is not available, the request may be submitted in letter form, giving the same information as listed above, and the solicitation or contract number involved. Such requests may also be made to the activity by Telex No. 834295, Western Union No. 710-670-1685, or telephone (area code 215-697-3321) in case of urgency.

(b) Commercial Specifications, Standards and Descriptions. These Specifications, standards and descriptions are not available from Government sources. They may be obtained from the publishers.

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C6 AWARD -- SINGLE AWARD FOR ALL ITEMS

Due to the interrelationship of the items involved, the right is reserved to make a single award to the responsive bidder (or offeror) whose total bid (offer) on all items is low.

NOTE:

The Government reserves the right to award a primary contract to the offeror whose offer is most advantageous to the Government and to award a secondary contract (in the nature of a standby) to be used to cover requirements generated during peak periods which cannot properly be handled under the primary contract.

Bidders shall indicate with an X in the appropriate space provided below, whether they will accept award for a secondary contract.

Bidder will X will not _____ accept a secondary contract award.

There will be no minimum guaranteed quantity under the secondary contract. Clause J105 will not apply to the secondary contract for "contract minimum quantity."

C16 GOVERNMENT SURPLUS (1965 JAN)

ASPR 7-104.49 is hereby incorporated by reference.

C16a NEW MATERIAL (1965 JAN)

ASPR 7-104.48 is hereby incorporated by reference.

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C28 NOTICE OF APPLICABLE SMALL BUSINESS SIZE STANDARDS: NON SET-ASIDE

This procurement is not a set-aside for Small Business. However, the bidder's/offeror's status as such a concern may affect entitlement to award in the case of tie bids/offers or in the evaluation of bids/offers in accordance with the Buy American Clause of this solicitation.

For the purpose of this procurement the following small business size standards apply:

1. The product(s)/service(s) required are determined to be within Standard Industrial Classification Number 3494/5561.

2. For product(s) manufactured by the bidder/offeror, the number of employees of that concern and its affiliates shall not exceed 500 persons.

3. For product(s) not manufactured by the bidder/offeror, the number of employees of that concern and its affiliates shall not exceed 500 persons.

4. For service(s) to be performed by the bidder/offeror, the average annual receipts of that concern and its affiliates for the preceding three fiscal years shall not exceed $_____, or the number of employees of that concern and its affiliates shall not exceed _____ persons.

C51 TYPE OF CONTRACT ANTICIPATED

It is anticipated that this solicitation will result in the following type of contract:

Time and Material

C120 QUESTIONS CONCERNING THIS SOLICITATION

Questions concerning the specifications or other provisions of this solicitation, or any suggested changes therein, must be directed to the Contracting Officer, Code 203, Naval Supply Center, Puget Sound, Bremerton, Washington 98314, before the time specified for receipt. In order to insure proper consideration before receipt, all questions or suggested changes in the specifications must be received by the Contracting Officer at least 10 days prior to the time set for receipt of this solicitation. Questions must be submitted in writing; oral questions will not be answered.

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C30 COST AND PRICING DATA REQUIRED

(a) The offeror is to submit with his proposal full cost and pricing data on two copies of the enclosed DD Form 633 ( ). Prior to award the accuracy, currency and completeness of such data shall be certified by the offeror using the form set out in ASPR 3-807.4.

(b) If the offeror claims an exemption from cost or pricing data requirements on the ground that his contract price is based on an established catalog or market price, or on a price set by law or regulation, he shall submit a DD Form 633-7 in accordance with ASPR 16-206.1.

(c) Any contractor required to submit and certify cost or pricing data in accordance with (a) above shall also be required to obtain cost or pricing data from his subcontractors under the circumstances set forth in ASPR 3-807.3(b)(i).

(d) Cost or pricing data furnished by a subcontractor or a prospective subcontractor pursuant to ASPR 3-807.3(b) or (c) must be submitted to the prime contractor or higher tier subcontractor. It is the responsibility of the prime contractor and higher tier subcontractor to review and evaluate the subcontract proposal and accompanying cost or pricing data and furnish the results of such review and evaluation to the Government as part of their cost or pricing data submission.

C39 SITE VISIT (1969 OCT)

Offerors or quoters are urged and expected to inspect the site where services are to be performed and to satisfy themselves as to all general and local conditions that may affect the cost of performance of the contract, to the extent such information is reasonably obtainable. In no event will a failure to inspect the site constitute grounds for a claim after award of the contract.

OFFERORS/QUOTERS ARE INVITED TO INSPECT THE Shop 31
(Site)
SERVICES TO BE AT Puget Sound Naval Shipyard, Bremerton, Wa.
(Activity)
BY TELEPHONING Robert Grinde (206) 478-7797 or Jack Wanke (206) 478-7810
(Person) (Phone Number)
FOR APPOINTMENT. Between the hours of 8 AM and 3:30 PM.

C110 WAGE DETERMINATION APPLICABLE

An attachment hereto sets forth the applicable Service Contract Act Wage Determination by the Secretary of Labor. (Attachment 3)

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C111 NOTICE -- SERVICE CONTRACT ACT, AMENDMENT OF 1972, P.L. 92-473, AND FAIR LABOR STANDARDS ACT AMENDMENT OF 1974, P.L. 93-259

A.(i) You are advised that this procurement is subject to the requirements of the Service Contract Act as amended by P.L. 92-473, 9 October 1972, and attention is invited to the obligations of the contractor under Section 4(c) of the amended Service Contract Act. Any questions regarding the extent of these obligations should be addressed to the Department of Labor. (ii) Notwithstanding any other provision of this contract, the minimum wage payment shall be as specified by P.L. 93-259 or the Service Contract Act Wage Determination, if any, whichever is greater.

B [redacted], the contractor agrees to provide to the Contracting Officer upon request a copy of any [redacted]

C. Section 2(A)(5) of the Service Contract Act of 1965, as amended, requires that every contract (and bid specification therefore) subject to the Act contains a statement of the rates that would be paid by the Federal agency to the various classes of service employees if 5 USC 5341 were applicable to them. The following required statement is attached for information only:

STATEMENT OF WAGE AND FRINGE BENEFIT RATES APPLICABLE TO FEDERAL WAGE BOARD (BLUE COLLAR) EMPLOYEES PURSUANT TO 5 USC 5341 (For information only)

1. Contribution of five point one (5.1) percent of basic hourly rate for health and insurance.

2. Contribution of seven (7) percent of basic hourly rate for retirement.

3. Nine (9) paid holidays as follows: New Year's Day, Washington's Birthday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans Day, Thanksgiving Day and Christmas Day.

4. Paid annual leave (vacation) as follows:

A. Two (2) hours of annual leave each week for an employee with less than three (3) years of service.

B. Three (3) hours of annual leave each week for an employee with three (3) but less than fifteen (15) years of service.

C. Four (4) hours of annual leave each week for an employee with fifteen (15) or more years of service.

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5. Basic hourly rate by classification as follows:

CLASSIFICATION	BASIC HOURLY RATE
Machinist WG-10	$7.55

CONTRACTOR'S LOCATION AND FACILITY

The nature of the services rendered by the Contract will necessitate close liaison with the ordering activities to rapidly estimate manhours and delivery dates and to assess the amount of work to be performed under each delivery order. Accordingly, the Contractor's facilities and qualified personnel shall be located within a radius of 210 miles from the Puget Sound Naval Shipyard area. This radius includes the Bremerton, Bellingham, Seattle, Tacoma, and Portland areas.

QUALIFICATION REQUIREMENTS

Offerors shall submit with the proposal information to support the following requirement of Contractor Qualifications:

The Contractor shall supply appropriate technically qualified Journeyman Machinists (Inside) to perform the tasks outlined herein. He shall have the personnel, orginization and administrative control necessary to ensure that the finished product meets the parameters set forth in each delivery order. The level of skill, education and experience of the personnel required to perform under the terms and conditions set forth herein shall meet the following minimum qualifications:

(a) Academic Requirements:
(1) Graduate of a high school, high school equivalency certificate, trade school, industrial school or an accredited correspondence school in which credits were received in the applicable trade, including mathematics and theory associated with each individual trade, or have served a four year apprenticeship or training equivalent to the four year apprenticeship in the applicable trade.

(b) General Experience Requirements:
(1) Thorough knowledge of the principles of machine shop practices and techniques.

(2) Possess the ability to interpret and work from blueprints (Standard and Navy Type), drawings, manuals, handbooks, technical specifications and sample pieces.

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(c) Skills Requirements:

(1) Set up and operate various machine tools, including various types and sizes of lathes, boring mills, milling machines, radial drills, shapers, precision grinding machine and specialized or multi-purpose machines related to these, balancing machines & hydro test equipment.

(2) Make complex set-ups and precise alignments of work pieces in machines.

(3) Perform precision handwork to fit, finish and assemble machined parts and hi speed rotating machinery

The above information will be used by the Government to determine Contractor's capability in the areas set forth in the schedule and may be subject to a pre-award survey.

D EVALUATION AND AWARD FACTORS

D6 DISCOUNTS (1968 SEP)

In accordance with subparagraph (a) of the clause entitled "Discounts" in the Solicitation Instructions and Conditions (Standard Form 33-A), prompt payment discounts will be considered in the evaluation of bids or offer, provided the minimum period for the offered discounts is:

(i) 20 days from date of delivery of the supplies to carrier when acceptance is at point of origin; or

(ii) 20 days where delivery and acceptance are at destination.

The offered discount of a successful Bidder/Offeror will form a part of the award whether or not such discount was considered in the evaluation of his bid/offer and such discount will be taken if payment is made within the discount period.

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ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
	E SUPPLIES OR SERVICES AND PRICES				
	LOT I - (Item 0001 - 0002)				
					NOT TO EXCEED
0001	Services and some materials to repair, overhaul, machine, assemble and test Government furnished centrifugal pumps and miscellaneous type valves as outlined in Section F				
0001AA	Journeyman Machinist (inside) *Straight time labor rate	4,000	HRS		
0001AB	Journeyman Machinist (inside) **Overtime Labor rate	300	HRS		
					NOT TO EXCEED
0001AC	Material (at cost excluding G&A and overhead)	1	LO		$2,500.00
0002	Contract Data Requirements per DD1423 - Exhibit A - attachment #2	1	GP	NOT SEPARATELY PRICED	

The minimum quantity under this contract is a total of $10,000.00 worth of orders. See Clauses J103 and J105.

*Straight (Regular) time: is defined as normal work of eight hours per man per day, five days per work (Saturdays, Sundays & Federal holidays excepted)
**Overtime: is defined as any work in excess of eight hours per day per man or in excess of forty hours per week, or work performed on Saturdays, Sundays and Federal Holidays.

The cost of necessary clerical supplies and material is considered to be a normal cost of doing business, shall be borne by contractor, and shall be included in the hourly rates set forth in Section E.

Costs incurred by the Contractor for contract administration shall be included as part of the General and Administrative costs absorbed by the Contractor in the given hourly rates and shall not be directly allocated to any labor category shown in the Schedule.

DOC # For Navy Use Only

AGGREGATE AMOUNT FOR LOT I - (Item 0001 - 0002)

Unit prices to be furnished.

Excluding ultrasonic test

NWMAR129827

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F DESCRIPTION/SPECIFICATIONS

1. Item 0001 shall include services and materials except materials to be supplied by the Government as specified on each delivery order, necessary to restore the operating and performance characteristics of the below listed types of Government furnished equipment to its original design and technical performance specifications: It is anticipated that the Government will supply 90% of the material on all delivery orders.

(a) CENTRIFUGAL PUMPS:

(1) single to six stage, with and without steam turbine or electric motor.

(b) VALVES:

(1) 1 in. to 10 in. gate, globe, angle, check, relief
(2) Water, oil, air and steam types

The below information is supplied as a general guide relative to services that may be required under the terms and conditions of the solicitation but shall not be limited to the following:

(a) CENTRIFUGAL PUMPS:

(1) desassemble, clean, examine all parts for suitability
(2) re-work: water bearing, casing rings, impellar wear rings, shaft sleeves, shaft finishing. Rework casings by re-machining as required including alignment fits.
(3) replace ball bearings, pins, keys, nuts, bolts studs and washers
X (4) balance - individual components & assembled rotating units
(5) re-assemble & align as required
(6) hydro test cases

(b) TURBINES:

Sub contract
X U.T. (1) Babbitt bearings. Rework or replace Babbitt Bearings U.T. insp. & documentation required
(2) Re-work rotate unit
(3) Recondition if required allseal & sealing surfaces
(4) Rework accessories, i.e. Governors, valves oil pumps, heat exchanges, etc.
(5) Rework nozzle, casing & alignment fits
X (6) Rework rotor & blading & journals - balance.
(7) Recondition gears to proper wear pattern

(c) MOTORS:

(1) replace brushes and bearing
(2) check or replace windings
(3) chrome or nickel plate shaft bearing surfaces to restore to size
(4) balance shaft replacement and rotor assemblies
(5) check & repair to proper fits & faces.

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(d) VALVES:

(1) disassemble and clean all parts - match mark for reassembly
(2) surface flanges
(3) replace fasteners
(4) stems or re-manufacture recondition stems or remanufacture or replace (no welding permitted)
(5) replace packing material
(6) weld and re-machine bonnets
(7) manufacture new seal rings with spares
(8) clad weld valve body seal ring bore
(9) relap or replace valve seats protecting internal surfaces
(10) clean external surfaces
(11) re-machine stainless steel or stellite welded gate surfaces
(12) replace tension spring - on safety & relief valves
(13) reassemble - insuring alignment of all working parts i.e. stem disc, bonnett guide bushings etc.

3. If available, the Government will furnish the Contractor, on a loan basis, any or all of the following documents for use as appropriate to each delivery order:
(1) Technical Manuals
(2) Type plans
(3) Engineering Sketches
(4) Installation Practices Manuals

4. As various types of equipment are to be serviced, specific test criteria shall be determined before a delivery order is placed against the ensuing contract. The below listed tests may be required; but shall not be limited to the following:

A. VALVES:

(1) Hydrostatic test at 150 percent of valve operating pressure for seat leak, packing, and valve porosity.

(a) Steam valve pressures up to 900 PSIG
(b) Oil and water valve pressures up to 4500 PSIG
(c) Air valves pressures up to 10,000 PSIG

(2) Contractor shall be required to have the capability for oil, air and water pressure testing. Facilities for testing with steam are desired but not required. In keeping with the Government's right to site inspect prior to acceptance as set forth in Section I, steam valves can be expected to be given a steam test at destination, prior to acceptance. [redacted] and in accordance with the provisions of the warranty of Service Clause Set forth in Section J. All valves tested or set shall be tagged with test or set pressures.

X (steam)

? inspect site (Page 15)

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

B. CENTRIFUGAL PUMPS:

(1) Pump body hydrostatic test to PSIG plan or information will be provided.
(2) Where steam turbines or electric motors are integral with pump, test up to 8 hours acceptance runs:

(2.1) RPM
(2.2) pump head pressure bearing temperature
(2.3) liquid end temperature
(2.4) casing temperature
(2.5) binding

5. Overtime shall be worked by the Contractor only when and to the extent authorized by a written delivery order placed against the ensuing contract by the Ordering Activity.

6. Any welding performed in the services required herein shall be in accordance with MIL-STD-278E dated 29 MAR 1976, entitled "Fabricating, Welding and Inspection; and Casting Inspection and Repair for Machinery, Piping and Pressure Vessels in Ships of the US Navy".

G PRESERVATION/PACKAGING/PACKING

G2a MARKING OF SHIPMENTS (COMMERCIALLY PACKAGED ITEMS)

(i) The Contractor shall mark all shipments under this contract in accordance with FED. STD. No. 356, "Commercial Packaging of Supplies and Equipment."

(ii) Additional Markings are stated below:

Consignee, requisition & contract/order number, and
Contractor's name & address

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G PRESERVATION/PACKAGING/PACKING

G4 PREPARATION FOR DELIVERY (DOMESTIC SHIPMENT, OR OVERSEA DESTINATION VIA AIR OR CONTAINER SHIP)

(1) General. Subject to the limitations set forth below, commercial preservation, packing and marking are acceptable for this procurement. This standard neither requires nor includes the use of military methods and materials.

(2) Preservation and packing shall be suitable for retail distribution directly to a using customer.

(3) Bulk preservation and packing such as is used in inter and intraplant shipments and for shipment to repackaging jobbers and part distribution outlets for represervation and packing, is not acceptable.

(4) Preservation and packing shall meet or exceed the following minimum requirements:

(a) Cleanliness. Items shall be free of dirt and contaminants which would require cleaning by the customer prior to use. Coatings and preservation applied to the item for protection are not considered contaminants.

(b) Preservative. Items with critical finishes required for fit or function shall be provided protection such as preservative coatings, volatile corrosion inhibitors or desiccated packs.

(c) Cushioning. Items requiring protection from physical damage to surfaces or which are fragile in nature shall be protected by wrapping, pack compartmentization, or cartonizing of the individual items.

(d) Packing. The item will be packed to meet carrier acceptance and safe delivery to destination at lowest rates in compliance with requirements of carrier rules and regulations applicable to the mode of transporation.

G8 PACKING MATERIAL - SHREDDED PAPER PROHIBITED

The use of shredded paper of any type or kind as packing material is prohibited as a health and fire hazard.

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H15 PLACE OF DELIVERY - GOVERNMENT FURNISHED MATERIAL

(a) The Government will furnish to the Contractor for use in connection with this contract the following material at the time specified:

MATERIAL	QUANTITY	TIME
As Specified on each order		

[redacted]

H DELIVERIES OR PERFORMANCE

For Delivery Orders placed by the Naval Supply Center Puget Sound, Bremerton, Wa

[redacted] all applicable drawings, manuals, plans, sketches and equipment from/to Puget Sound Naval Shipyard. Place of pick up and delivery shall be Building 431 unless otherwise directed in the Delivery Order.

PERIOD OF CONTRACT - H101 DURATION OF CONTRACT PERIOD

Contract shall be effective on the date shown in the contract award and shall be effective for a period of twelve (12) months thereafter.

TIME OF DELIVERY:

Services required shall be performed and the equipment delivered as specified on each Delivery Order. Orders requiring 30 or more calendar days for delivery shall be accomplished on a straight time basis unless otherwise authorized by the Government. Minimum delivery time shall be 5 days.

I INSPECTION AND ACCEPTANCE

Initial inspection shall be at the Contractor's facility by a representative of the Puget Sound Naval Shipyard, Shop 31.

Final inspection and acceptance of the services and materials shall be by the Receiving Activity at destination.

The Government reserves the right to inspect upon test and at completion of test. Contractor shall notify the congnizant inspector when equipment is ready for inspection.

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The Contractor shall provide and maintain an inspection system which will assure that all supplies and services submitted to the Government for acceptance conform to contract requirements whether manufactured or processed by the Contractors or procured from sub-contractors or vendors. The contractors shall perform or have performed the inspections and tests required to substantiate product conformance to drawings, specifications and contract requirements and shall also perform or have performed all inspections and tests otherwise require by the Contractor.

I7 SURVEILLANCE OF SERVICES AND TIME RECORDS

(a) The official designated in para. b (or his authorized representative) shall be responsible for appropriate surveillance of all services to be performed under this contract. In so doing, he or his authorized representative shall (1) review for accuracy and approve or disapprove the Contractor's time and attendance records of all workers assigned under the contract, (2) make frequent periodic visits to the work site to check on the presence of workers whose time is charged thereto.

(b) Name and Code Robert Grinde or Jack Wanke

Activity Shop 31

Address Puget Sound Naval Shipyard, Brmerton, Wa. 98314

Telephone No. (206) 478-7797 or 7810

(c) Contractor's representative shall contact the Government representative named above upon arrival at and departure from the work site. If access to security area is required, continuous escort service for contractor's representative will be provided by the designated Government representative.

J SPECIAL PROVISIONS

ORDERING PROCEDURES

The steps that should be taken by authorized government personnel in placing an order are as follows:

(1) The following information should be provided to the Ordering Officer:

a. A Work statement definitized to the extent possible along with an estimate of the costs. This estimate should include a breakdown of proposed labor categories, number of hours for each category, and other estimated costs.

b. A DD Form 1423, Contract Data Requirements Checklist, if data is to be a deliverable item under the contract.

c. A DD Form 254, Contract Security Requirements Checklist, to amplify the DD Form 254 in the basic contract if required.

d. A non-personal vs. personal services check list (notwithstanding the fact that a non-personal services determination was made on the basic contract) if estimate is over $10,000.00.

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(2) [redacted] such as [redacted]. Obtain limited technical proposal as deemed necessary to explain approach and to justify proposed costs.

(3) The cost (and technical) proposal should be reviewed by both the Ordering Officer and the requiring code. The Ordering Officer should insure that the rates and other provisions of the proposal are consistent with the basic contract. The requiring technical code should review the proposed labor categories, number of hours and other costs. The purpose of this technical review is to insure that the proposed costs are reasonable in light of the work statement.

(4) Negotiations should be commenced with the contractor upon completion of above review. As a minimum, these negotations should consist of a full discussion of the work statement to insure that the government and the contractor have a common understanding of the work statement and potential areas of performance uncertainty. Once this understanding of the work statement is reached, negotiations of differences in the cost areas is simplified and the attainment of the Government's needs at minimum cost is enhanced. In the event that substantial difficulties are met in attempting to negotiate a ceiling price, they can often be traced to the fact that the proposed task extends over a substantial period of time and guesswork replaces estimating as the pricing technique. If this situation develops, it is often helpful to break down the work statement into timephased subtasks and contract for only the initial subtasks at this point. As work progresses objective and cost estimates for subsequent subtasks become clearer and additional delivery orders can be issued or the original delivery order can be modified.
[redacted] within a reasonable length of time, on level effort for each labor category, total estimated cost, and delivery schedule [redacted].

(5) Upon a negotiated agreement as to level of effort, total estimated cost, and delivery schedule, a Delivery Order, signed by the Ordering Officer will be issued and forwarded to the Contractor. A copy of each Delivery Order shall be forwarded to the Contracting Officer, Naval Supply Center, Puget Sound, Code 203, Bremerton, Wa. 98314.

(6) Each Delivery Order shall include the following:

1. Contract and Delivery Order Number
2. Date of Issuance
3. Description of work to be performed
4. Specifications and/or performance criteria (deliverables)
5. Reports required including content, format, and number of copies to be submitted.
6. Required delivery schedule and place of performance
7. Estimated manhours of direct labor, travel, and subsistence
8. Total ceiling price detailed by labor category and miscellaneous costs

(7) When the contractor determines that previous payments under this task plus costs which will accrue in the next 30 days will exceed 85% of the task order ceiling price, the contractor must notify the contracting officer giving the contractor's best estimate for completion in terms of manhours and materials. The

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ordering officer may increase the ceiling price of the order by issuance of a supplemental agreement modification. A copy of all Supplement Agreements/modifications shall be forwarded to the Contracting Officer, Naval Supply Center, Puget Sound, Code 203.

(8) Only the Ordering Officer has the authority to direct the Contractor in any way to alter the Delivery Order. IF the COTR as a result information obtained from liaison with the Contractor, does desire to alter the Delivery Oder changes will be issued in writing and signed by the Ordering Officer. [redacted] on any changes unless and [redacted] to the Delivery Order [redacted].

Legal Approval of Delivery Orders

All Delivery Orders exceeding $10,000 or modifications of existing Delivery Orders raising the dollar threshold over $10,000 issued pursuant to this contract shall, prior to issuance, have approval as to form and legality of the Counsel, Naval Supply Center, Puget Sound, particularly as to the personal versus nonpersonal services character of the Delivery Order.

J18a INDEMNITY (GOVERNMENT NEGLIGENCE EXCEPTED)

Contractor shall be responsible for and shall indemnify and hold the Government harmless in connection with any loss or liability from damage to or destruction of property or from injuries to or death of persons (including the agents and employees of both parties) if such damage, destruction, injury or death arises out of, or is caused by, performance of work under this contract, unless such damage, destruction, injury or death is caused solely by the active negligence of the Government's employees, agents or representatives. Contractor agrees to include this clause, appropriately modified, in all subcontracts to be performed on Government premises in whole or in part.

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J SPECIAL PROVISIONS

J22 LIABILITY FOR GOVERNMENT PROPERTY UNDERGOING SERVICES, REPAIRS OR MODIFICATION

(a) As to Government property delivered to or picked up by the Contractor for servicing, repairs, modification or for services preliminary thereto, the Contractor shall be fully liable as an insurer for any loss of or damage to such equipment or property while in his care, custody, or control arising from any cause whatsoever, and he agrees to reimburse the Government in full for his account. Unless otherwise specified in the contract schedule, the Government retains title to any and all scraps, salvage, or other residual materials originating from said equipment or property.

(b) Subject to the "Disputes" clause of this contract, the Contracting Officer may make an equitable adjustment downward in the contract price, or in any monies due the Contractor, to compensate the Government in whole or in part for loss or damage for which the Contractor is liable hereunder.

J46 LIABILITY AUTOMOBILE AND WORKMAN'S COMPENSATION INSURANCE

The following types of insurance are required in accordance with the clause entitled "INSURANCE" (1977 JAN) (ASPR 7104.65) and shall be maintained in the minimum amounts shown:

1. Comprehensive General Liability: $100,000 per person and $300,000 per accident for bodily injury.

2. Automobile Insurance: $100,000 per person and $300,000 per accident for bodily injury and $10,000 per accident for property damage.

3. Standard Workmen's Compensation and Employee's Liability Insurance and Longshoremen's and Harbor Worker's Compensation Insurance, in the minimum amount of $100,000, or such of these as may be proper under applicable state or Federal Statutes.

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J102 DELIVERY ORDER LIMITATIONS (1965 AUG)

(a) [redacted] When the Government requires supplies or services covered by this contract in an amount of less than [redacted], [redacted] any supplies or services under this contract.

(b) [redacted]r:
(i) any order for a single item [redacted]
(ii) any order for a combination of items in excess of [redacted] or
(iii) a series of orders from the same ordering office in the course of 20 days 5 days which in the aggregate call for quantities of items to the extent that the aggregate is in excess of the limitations provided in (i) and (ii) above.

(c) Notwithstanding the foregoing, the Contractor shall honor any order received which exceeds the maximum order limitations set forth above unless the order or orders which exceed the maximum limitations are returned to the issuing office within _____ days from the date of issue thereof, together with written notice of intent not to make shipment of the items called for and the reasons therefor. Upon receipt of this notice, the Government may secure the supplies from another source.

(d) [redacted] when such requirement exceeds the maximum order limitations set forth in (b) above.

Secondary Contract

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J103 INDEFINITE QUANTITY (1965 AUG)

(a) This is an indefinite quantity contract for the supplies or services specified in the Schedule and for the period set forth therein. Delivery or performance shall be made only as authorized by orders issued in accordance with the "Ordering" clause of this contract. The quantities of supplies or services specified herein are estimates only and are not purchased hereby.

(b) The Contractor shall furnish to the Government, when and if ordered, the supplies or services set forth in the Schedule up to and including the quantity designated in the Schedule as the "maximum". The Government shall order the quantity of supplies or services designated in the Schedule as the "minimum".

(c) Orders issued during the effective period of this contract and not completed within that time shall be completed by the Contractor within the time specified in the order, and the rights and obligations of the Contractor and the Government respecting those orders shall be governed by the terms of the contract to the same extent as if completed during the effective period of this contract, provided that the Contractor shall not be required to make any deliveries under this contract after 25 days after expiration date of contract.
(date)

(d) The Government may issue orders which provide for delivery to or performance at multiple destinations.

J105 MINIMUM AND MAXIMUM QUANTITIES

As referred to in paragraph (b) of the "Indefinite Quantities" clause of this contract, the contract minimum quantity is a total of $ 10,000.00 worth of orders at the contract unit price(s); (the maximum quantity is the total estimated quantity for each item as set forth in the schedule). The maximum quantity is not to be exceeded without prior approval of the PCO.

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J107 ORDERING (1968 JUN)

(a) Supplies or services to be furnished under this contract shall be ordered by the issuance of delivery orders by the Naval Supply Center Puget Sound (activity) Orders may be issued under this contract from Date of award (date) or date of award, whichever is later, through one year thereafter (date).

(b) All delivery orders issued hereunder are subject to the terms and conditions of this contract. This contract shall control in the event of conflict with any delivery order.

(c) When mailed, a delivery order shall be "issued" for purposes of this contract at the time the Government deposits the order in the mail.

(d) The ordering activity is responsible for distribution of copies of all orders hereunder.

J109 WRITTEN ORDERS (INDEFINITE DELIVERY CONTRACTS)

Written orders (on DD Form 1155) will contain the following information consistent with the terms of the contract:

1. Date of order;
2. Contract number and order number;
3. Item number and description, quantity ordered, and contract price;
4. Delivery or performance date;
5. Place of delivery or performance (including consignee);
6. Packaging, packing, and shipping instructions if any required;
7. Accounting and appropriation data;
8. Inspection invoicing and payment provisions to the extent not covered in the contract; and any other pertinent information.

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J123 TIMEKEEPING RECORDS, SUBMITTAL OF

For review and approval/disapproval, [redacted] to the person(s) or office(s) designated in the contract clause herein entitled "Surveillance of Services and Time Reocrds."

FACILITY VISITS

To insure the validity of all charges against a particular delivery order, the requiring activity in coordination with the Administrative Contracting Officer shall visit the Contractor's facility as the need arises.

WARRANTY OF SERVICES

Notwithstanding inspection and acceptance by the Government or any provision concerning the conclusiveness thereof, the Contractor warrants that all services performed under this contract will, at the time of acceptance be free from defects in workmanship and conform to the requirements of this contract. The Contracting Officer shall give written notice of any such defect or nonconformance to the Contractor within 6 months after acceptance by the Government. Such notice shall state either (i) that the Contractor shall correct or re-perform any defective or nonconforming services, or (ii) that the Government does not require correction or re-performance. If the Contractor is required to correct or re-perform, it shall be at no cost to the Government, and any services corrected or re-performed by the Contractor pursuant to this clause shall be subject to all provisions of this clause to the same extent as work initially performed. If the Contractor fails or refuses to correct or re-perform, the Contracting Officer may, by contract or otherwise, correct to replace with similiar services and charge to the Contractor the cost occasioned to the Government thereby or obtain an equitable adjustment in the contract price. [redacted].

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K CONTRACT ADMINISTRATION DATA

DESIGNATION OF ORDERING OFFICER

The following individuals are designated as authorized Ordering Officers:

Mr. Ken Halverson - Code 203.6
Naval Supply Center Puget Sound
Bremerton, Wa 98314
Phone (206) 478-2954

As such this individual is responsible for issuing and administering any delivery orders placed hereunder. Ordering Officers have no authority to modify any provision of this basic contract. Any deviation from the terms of the basic contract must be submitted to the PCO for contractual action.

DESIGNATION OF CONTRACTING OFFICER'S TECHNICAL REPRESENTATIVE (COTR)

The following individuals are designated as the authorized Contracting Officer's Technical Representatives:

Mr. Robert Grinde
Shop 31
Puget Sound Naval Shipyard
Bremerton, Wa 98314
Phone 206-478-7797

OR

Mr. Jack Wanke
Shop 31
Puget Sound Naval Shipyard
Bremerton, Wa 98314
Phone 206-478-7810

As such, these individuals are responsible for monitoring, progressing, and overall technical managing of the orders placed hereunder and should be contacted regarding questions or problems of a technical nature. In no event, however, will any understanding or agreement, modification, change order, or other matter deviating from the terms of the contract between the contractor and any person other than the Contracting Officer be effective or binding upon the Government, unless formalized by proper contractual documents executed by the Contracting Officer prior to completion of this contract.

When, in the opinion of the contractor, the COTR requests effort outside the existing scope of the contract, the contractor will promptly notify the Contracting Officer in writing. No action will be taken by the Contractor under such technical instruction until the Contracting Officer has issued a contractual change.

On all problems that pertain to contract terms, the contractor will contact the Contracting Officer. The COTR will be contacted regarding problems or changs pertaining to a specific Delivery Order.

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INVOICING AND PAYMENT INSTRUCTIONS

1. Invoices will be submitted on not more than a monthly basis for each individual delivery order covering amount claimed to be due for services rendered and costs incurred hereunder. There will be a lapse of no more than ninety days between performance and submission of invoices. The contractor shall prepare his invoices and Certificates of Performance as specified below and submit them for approval prior to payment as follows:

A. Copies to the Ordering Activity

The original and three copies of the invoice containing an executed Certificate of Performance will be forwarded to:

Ordering Officer
Code 203.6
Naval Supply Center Puget Sound
Bremerton, Wa 98314

B. Copy to Defense Contract Audit Agency (DCAA)

One copy of the invoice will be forwarded to:

Defense Contract Audit Agency
Seattle Branch Office
815 Airport Way South
Seattle, WA 98134

2. Content of Invoices

Invoices shall contain the following information:

a. Contract and order number
b. Item numbers
c. Description of work
d. Straight time labor charges by man hours, classification and cost
e. Premium time charges (if any) by man hours, classification and cost and name of approving official
f. Cumulative value of all billings to date
g. Complete itemized breakdown of travel and subsistance expenditures

3. Transmittal of Invoices to the Paying Office

The Ordering Officer will obtain the countersignature of the COTR. In the event the COTR discovers discrepancies in the invoice, he will resolve the discrepancies with the contractor and secure a corrected invoice and return the invoices with the Certificate of Performance to:

AS SPECIFIED ON EACH DELIVERY ORDER

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Payment will be made upon the basis of an approved invoice, and Certificate of Performance executed by the Contractor and the COTR.

4. The final invoice under each delivery order, identified as such, will be treated in exactly the same manner as described above except it will list all invoices previously tendered under the delivery order. In addition, one copy of the final invoice will be provided to the Procurement Contracting Officer and final payment will be predicated upon the executution of a Material Inspection Receiving Report (DD Form 250) or other acceptance document in addition to the COTR's certification.

K61 CONTACT FOR CONTRACT ADMINISTRATION

In the event your firm receives a contract as a result of this solicitation, designate a person whom the Government may contact during the period of the contract for prompt contract administration.

NAME: R SEMKE OR W MACLEAN

TITLE: GEN MANAGER WHO?? PROJ ENGINEER

ADDRESS: 216 NW 29TH 216

PHONE: 503-228-

K62 REPRESENTATIVE OF THE PROCURING OFFICE

After award of the contract, the representative of the Procuring Contracting Officer can be reached at:

CONTRACTING OFFICER, CODE 203.7

NAVAL SUPPLY CENTER, PUGET SOUND
BREMERTON, WASHINGTON 98314

Telephone: (AC 206) 478-2136
(Autovon) 439-2136

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

L(g) GENERAL PROVISIONS

The contract provisions of the Armed Services Procurement Regulation (ASPR) identified hereinafter in the list entitled "List of ASPR Required Clauses for Time and Material and Labor Hour Contracts" as Section L(g)1, are hereby incorporated in this contract by reference with the same force and effect as if set forth in full text. Those contract provisions of ASPR identified in the list entitled "List of Applicable ASPR Clauses for Time and Material and Labor Hour Contracts" as Section L(g)2, are hereby incorporated by reference with the same force and effect as if set forth in full. The words "The General Provisions, SF 32, 69 NOV Edition, which is attached, or incorporated herein by reference" are hereby deleted from Block 9 of the Standard Form 33, Solicitation, offer and Award.

CAUTION TO OFFERORS: THE OFFEROR IS CAUTIONED NOT TO DELETE OR ADD ANY ADDITIONAL CLAUSES ON THE FOLLOWING CONTRACT CLAUSE LISTS: SUCH ACTION MAY CAUSE HIS OFFER TO BE REJECTED AS NONRESPONSIVE.

NOTE: AVAILABILITY OF TEXT OF CLAUSES

The complete text of any or all of the clauses is available from the Procurement Department Bid Room, Naval Supply Center, Puget Sound, Building 467, 2nd Floor, Bremerton, Washington 98314 (Telephone 206 478-7265) and will be furnished on request.

L(g)1 LIST OF ASPR REQUIRED CLAUSES FOR TIME AND MATERIAL AND LABOR HOUR CONTRACTS INCORPORATED BY REFERENCE HEREIN

Clause No.	Clause Title	Clause Date
7-103.1	Definitions	1962 FEB
7-103.8	Assignment of Claims	1962 FEB
7-103.12(a)	Disputes	1958 JAN
7-103.13(a)	Renegotiations	1959 OCT
7-103.16(a)	Contract Work Hours and Safety Standards Act — Overtime Compensation	1971 NOV
7-103.17	Walsh-Healy Public Contracts Act	1958 JAN
7-103.18(a)	Equal Opportunity	1976 JUL
7-103.19	Officials Not To Benefit	1949 JUL
7-103.20	Covenant Against Contingent Fees	1958 JAN
7-103.22	Authorization and Consent	1964 MAR
7-103.23	Notice and Assistance Regarding Patent and Copyright Infringement	1965 JAN
7-103.26	Pricing of Adjustments	1970 JUL
7-103.27	Listing of Employment Openings	1975 JUN
7-103.28	*Affirmative Action for Handicapped Workers	1976 MAY
7-104.3	Buy American Act	1964 MAY
7-104.14(a)	Utilization of Small Business Concerns	1958 JAN

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

Clause No.	Clause Title	Clause Date
7-104.15	Examination of Records by Comptroller General	1975 JUN
7-104.16	Gratuities	1952 MAR
7-104.17	Convict Labor	1975 OCT
7-104.18	Priorities, Allocations and Allotments	1975 OCT
7-104.20(a)	Utilization of Labor Surplus Area Concerns	1970 JUN
7-104.22	Equal Opportunity Pre-Award Clearance of Subcontracts	1971 OCT
7-104.36(a)	Utilization of Minority Business Enterprises	1971 NOV
7-104.39	Interest	1972 MAY
7-104.40	Competition in Subcontracting	1962 APR
7-104.41(a)	Audit by Department of Defense	1975 JUN
7-104.62	Material Inspection and Receiving Report	1969 DEC
7-104.82	Payment of Interest on Contractors' Claims	1976 JUL
7-203.11	Excusable Delays	1969 AUG
7-901.2	Changes	1964 MAR
7-901.4	Termination	1974 OCT
7-901.5	Government Property (Time and Material or Labor Hour)	1970 SEP
7-901.6	Payments	1972 MAY
7-901.10	Subcontracts	1977 APR
7-901.21	Inspection and Correction of Defects	1974 OCT

*Message from CHNAVMAT, R171505Z May 76

L(g)2 LIST OF APPLICABLE ASPR CLAUSES FOR TIME AND MATERIAL AND LABOR HOUR CONTRACTS INCORPORATED BY REFERENCE HEREIN

Clause No.	Clause Title	Clause Date
7-103.29	**Clean Air and Water	1975 OCT
7-104.9(a)	Rights in Technical Data and Computer Software	1974 NOV
7-104.9(h)	Technical Data--Withholding of Payment	1976 JUL
7-104.9(l)	Identification of Technical Data	1975 MAR
7-104.9(n)	Data Requirements	1972 APR
7-104.9(p)	Restrictive Markings of Technical Data	1975 MAR
7-104.21(a)	Limitation on Withholding of Payments	1958 SEP
7-104.24(f)	Government-Furnished Property (Short Form)	1964 NOV
7-104.29(a)	Price Reduction for Defective Cost or Pricing Data	1970 JAN
7-104.42(a)	Subcontractor Cost or Pricing Data	1970 JAN
7-104.45(a)	Limitation of Liability	1974 APR
7-104.63	Protection of Government Buildings, Equipment and Vegitation	1968 FEB
7-104.65	Insurance	1977 JAN
7-104.71	F.O.B. Destination	1969 APR
7-104.75	Diversion of Shipment Under F.O.B. Destination Contracts	1971 NOV
7-104.77(f)	Government Delay of Work	1968 SEP
7-104.83(a)	Cost Accounting Standards	1975 FEB
7-104.83(b)	Administration of Cost Accounting Standards	1975 MAR
7-1903.41(a)	Service Contract Act of 1965	1968 SEP

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT

7-103.28 AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS (1976 MAY)

(a) The contractor will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The contractor agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon either physical or mental handicap in all employment practices such as the following: employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.

(b) The contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the act.

(c) In the event of the contractor's noncompliance with the requirements of this clause, action for noncompliance may be taken in accordance with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the act.

(d) The contractor agrees to post in conspicious places, available to employees and applicants for employment, notices in a form to be prescribed by the director provided by or through the Contracting Officer. Such notices shall state the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment, and the rights of applicants and employees.

(e) The contractor will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the contractor is bound by the terms of Section 503 of the Rehabilitation Act of 1973, and is committed to take affirmative action to employ and advance in employment physically and mentally handicapped individuals.

(f) The contractor will include the provisions of this clause in every subcontract or purchase order of $2,500 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to Section 503 of the Act, so that such provisions will be binding upon each subcontractor or vendor. The contractor will take such action with respect to any subcontract or purchase order as the Director of the Office of Federal Contract Compliance Programs may direct to enforce such provisions, including action for noncompliance.

M LIST OF DOCUMENTS OR ATTACHMENTS

Att# 1 - Certificate of Performance
Att# 2 - DD1423 - Contract Data Requirements
Att# 3 - U.S. Department of Labor Register of Wage Determination No. 73 -1239 (REV 3)
ENCL # 1 - DD633

CERTIFICATE OF PERFORMANCE

This is to certify that the following services were performed under Order Number _____ issued under Contract Number_____ during the period_____.

Labor Category	Regular Hours	Overtime Hours

Overtime work was authorized by_____.

The following authorized travel was performed in connection with official duty:

Date: From_____ To_____

Mode of Transportation_____

_____
Contractor's Authorized Representative

_____
Date

I certify to the best of my knowledge that the hours specified and services described above were satisfactorily performed.

Signed _____
(COTR's Name)

Title _____

Organization_____

Attachment #1

Valve & Pump

ATCH NR 2 TO EXHIBIT A

TO CONTRACT/PR _____

CONTRACT DATA REQUIREMENTS LIST

CATEGORY _____

SYSTEM/ITEM _____

CONTRACTOR _____

1. SEQUENCE NUMBER	2. TITLE OR DESCRIPTION OF DATA / 3. SUBTITLE	6. TECHNICAL OFFICE	10. FREQUENCY	12. DATE OF 1ST SUBMISSION	14. DISTRIBUTION AND ADDRESSEES (Addressee – Regular Copies/Repro Copies)
4. AUTHORITY (Data Item Number)	5. CONTRACT REFERENCE	7. DD250 REQ / 8. APP CODE (A) / 9. INPUT TO IAC (X)	11. AS OF DATE	13. DATE OF SUBSEQUENT SUBM/EVENT ID	

0001

2. Open-inspection report.

6. PSNS Shop 31

10. OTIME

12. 5 Days After receipt of component.

14. Shop 31 Shipping STATION PSNS Bldg. 931 BREMERTON, WA. 98314 ATTN: R GRINDE

7. DD

16. REMARKS

1. To include:
A-Scope of work to be performed to accomplish a class "B" overhaul.
B-Estimated number of hours required.

15. TOTAL 1/1

0002

2. Record of work accomplished

6. PSNS Shop 31

10. otime

12. SEE BLK. 11

14. Shop 31 Shipping Station. Bldg. 931 PSNS, BREMERTON, WA. 98314 ATTN: R. Grinde

7. DD

11. Delivered Completed

13. with equip.

16. REMARKS

1. To include as minimum:
A -List of replacement parts (new or manufactured)
B-Record of all welding accomplished

15. TOTAL 1/1

0002 (CONTINUED)

16. REMARKS

C-Record of machining (to be listed by component and machining done to each)
D-Report to include valve or pump tag (or identification) number.

15. TOTAL

PREPARED BY	DATE	APPROVED BY	DATE

DD FORM 1 JAN 75 1423 S/N 0102-LF-014-2300

REPLACES EDITION OF 1 JUN 69, WHICH IS USABLE.

NWMAR129848

INSTRUCTIONS FOR COMPLETING DD FORM 1423

For Government Personnel

1. This form *(or its equivalent adapted for ADPE)* shall be used whenever data is required to be delivered under a contract. The form *(except Items 23 through 26)* shall be completed in accordance with Departmental procedures, and furnished to the contracting officer by the personnel responsible for determining the data requirements of the contract.

2. Local reproduction of this form in exact format, 13" x 8", is authorized.

For the Contractor

1. The estimated prices filled in in Item 26 will not be separately used in evaluation of offers.

2. Each offeror may complete Items 23 and 24 in accordance with the following instructions:

Item 23. Contractor File/Document Number – Enter bidder's or offeror's internal filing or document number, if applicable.

Item 24. Estimated Number of Pages – Enter the estimated number of pages, drawings, etc., for single preparation.

3. Each offeror shall complete Items 25 and 26 in accordance with the following instructions *(this does not apply to advertised contracts or to negotiated contracts under $100,000)*.

Item 25. Price Group – Contractors shall specify one of the four following groups of effort in developing estimated prices for each item of data listed on the DD Form 1423.

a. Group I. Definition – Data which is not otherwise essential to the contractor's performance of the primary contracted effort *(production, development, testing, and administration)* but which is required by DD Form 1423.

Estimated Price – Costs to be considered under Group I are those applicable to preparing and assembling the data item in conformance with Government requirements, and the administrative and other expenses related to reproducing and delivering such data items to the Government.

Example for Group I – A technical manual prepared for military use only. The estimated price of the manual would be noted on the DD Form 1423 exclusive of costs for any of the manual material that had been generated for other purposes *(e.g., drawings used both for production and as illustrations in the manual)*.

b. Group II. Definition – Data which is essential to the performance of the primary contracted effort but the contractor is required to perform additional work to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control or quality of the data item.

Estimated Price – Costs to be considered under Group II are those incurred over and above the cost of the essential data item without conforming to Government requirements, and the administrative and other expenses related to reproducing and delivering such data item to the Government.

Example for Group II – In the case of MIL-D-1000 Form 1 drawings *(drawings to military standards)*, the estimated price of the data item begins only after the engineering and manufacturing information has been developed and the final form original drawings have been initiated. The estimated price shall not include the cost of configuration control but shall include any additional quality assurance and control of the drawings but not related to engineering configuration control. Not to be considered is "design effort" expended on layout drawings and other data which serve principally as a medium for developing design and are not used in manufacture, production or test of the end item.

c. Group III. Definition – Data which the contractor must develop for his internal use in performance of the primary contracted effort and does not require any substantial change to conform to Government requirements with regard to depth of content, format, frequency of submittal, preparation, control and quality of data.

Estimated Price – Costs to be considered under Group III are the administrative and other expenses related to reproducing and delivering such data item to the Government.

Example for Group III – A drawing prepared to Form 2 or 3 of MIL-D-1000 *(drawings to company standards)* which had been used in the manufacturer's normal plant activities.

d. Group IV. Definition – Data which is developed by the contractor as part of his normal operating procedures and his effort in supplying these data to the Government is minimal.

Estimated Price – Group IV items should normally be shown on the DD Form 1423 at no cost.

Example for Group IV – A brochure or short manual used in a company's normal commercial business, that is acquired by the Government in such small quantities that cost of determining a charge would not be practical.

Item 26. Estimated Total Price.

a. For each item of data listed the bidder or offeror shall enter an amount equal to that portion of the total price which is estimated to be attributable to the production or development for the Government of that item of data. These estimated data prices shall be developed only from those costs which will be incurred as a direct result of the requirement to supply the data, over and above those costs which would otherwise be incurred in performance of the contract if no data were required.

b. The estimated data prices shall not include any amount for rights in data. The Government's right to use the data shall be governed by the pertinent provisions of the contract.

☆ U.S. GOVERNMENT PRINTING OFFICE: 1972—714-264/4336 2-1

NWMAR129849

U.S. DEPARTMENT OF LABOR
EMPLOYMENT STANDARDS ADMINISTRATION
WAGE AND HOUR DIVISION
WASHINGTON, D.C. 20210

REGISTER OF WAGE DETERMINATIONS UNDER THE SERVICE CONTRACT ACT

By direction of the Secretary of Labor

Xavier M. Vela
Administrator, Wage and Hour Division

LOCALITY	State: Washington	48
	Area: Kitsap (035) and Mason (045) Counties	
	Wage determination number: 73-1239 (Rev. -3)	Date JUL 28 1978

Class of service employee	Minimum hourly wage	Fringe benefit payments: Health & Welfare	Vacation	Holiday	Other
Employed on contracts for maintenance or repair services for Federal facilities located in the above Locality:					
1. Painter	$7.74				
2. Sandblaster	7.25				
3. Mechanic, automotive	7.80				
4. Machinist	7.98				
5. Welder	7.98				
Fringe benefits applicable to classes of service employees engaged in contract performance:		1/	2/	3/	

1/ $.21 an hour or $8.40 a week or $36.40 a month.

2/ 1 week paid vacation after 1 year of service with a contractor or successor; 2 weeks after 2 years. Length of service includes the whole span of continuous service with the present (successor) contractor wherever employed, and with predecessor contractors in the performance of similar work at the same Federal facility. (Reg. 4.171(b)(2).)

3/ 10 paid holidays per year: New Year's Day, Washington's Birthday, Good Friday, Memorial Day, Independence Day, Labor Day, Columbus Day, Veterans' Day, Thanksgiving Day, and Christmas Day. (A contractor may substitute for any of the named holidays in accordance with a plan communicated to the employees involved.)

Any class of service employee required in the performance of the contract but not listed above shall be classified by the contractor so as to provide a reasonable relationship between such classes and those listed above, and shall be paid such monetary wages as are determined by agreement (evidenced in writing) of the interested parties, who shall be deemed to be the contracting agency, the contractor, and the employees who will perform on the contract or their representatives. In the absence of an agreement, the question of proper conformable wage rates is to be submitted to the Department of Labor by the contracting officer for a final determination. (See Section 4.6(b) of Regulations 29 CFR 4).

Attachment #3

NWMAR129850

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1Z	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,937.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802J (115)

2. The Job Order Price is increased by $9,937.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-24-84

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
01 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129851

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41, CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1Z	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,937.00

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(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802J (115)

2. The Job Order Price is increased by $9,937.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-24-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129852

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 17	115

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1802 J

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Structural Modifications For X-Band Installation

SCOPE: Modify work contained ref. B.1.f.

Modify work scope contained in reference B.1.f. as follows:

Delete: Reinstallation of the 4 original steam heaters and reinstallation of 2 original louvered dampers as required by ref. B.1.f.

Add to paragraph E.2.2.2 as follows:

The Contractor shall supply all labor and material except for one OFM steam heater, to install 4 new steam heaters and 2 new roll type air filters.

A. Steam Heaters

The Contractor shall supply 3 steam heaters type T-35 Steam HTR as manufactured by McQuay Inc. or equal. The Government will furnish 1 steam heater. The Contractor shall install the four steam heaters on the Aft side of air plenum bulkhead 133 in fan room (03-128-0-Q). The Contractor shall supply all labor and material to fabricate 2 mounting frames on the forward side of air plenum bulkhead 133 in fan room (03-128-0-Q) in place of the frames for the original steam heaters.

☑ Above work will be completed by current Job Order completion date of 06 July 1984

☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 9737 —

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/12/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature Date 4/12/84

NWMAR129853

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 / 7	115

B. Roll Type Air Filters

The Contractor shall supply 2 Cono Manual 4-VM75 roll type filters as manufactured by Continental Air Filter or equal. These filters shall be complete with external manual drive (one right hand and one left hand) and filter material for one years operation.

Reason For Change: C.R. 124

This price proposal is submitted in liew of #057 which is cancelled.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1Y	84APR16		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N. W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____;

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		2952XBAN5189	$635,825.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. The Government has determined that it is necessary to change the T-AGM-23 Job order specifications for the work covered by specification item numbered 2630, Serial No. 131 and for the work to start before the final price can be negotiated. The parties agree to negotiate a firm fixed price for this work as expeditiously as possible. Pending completion of negotiations, a maximum increase of $635,825.00 is established. The parties agree that the equitable adjustment in job order price to be negotiated in accordance with the Changes Clause shall result in an upward adjustment of no more than $635,825.

2. It is agreed that the above change will result in no adjustment in the delivery schedule of the T-AGM-23.

Copy to:
COMSC WASH DC (Code M-10-3), (Code M-4E3)
COMSC CONREP Portland, OR

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY _____
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
William J. McCauley Assistant General Manager	27 APR 84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129855

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO. 1Y
2. EFFECTIVE DATE 84APR16
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N. W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____, DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001 DATED 830CT06 (See block 11)

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10.

Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		2952XBAN5189	$635,825.00

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COMSC WASH DC (Code M-10-3), (Code M-4E3)
COMSC CONREP Portland, OR

DUPLICATE ORIGINAL

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BY _____ (Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____ (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
William J. McCauley
Assistant General Manager

16. DATE SIGNED
27 APR 84

18. NAME OF CONTRACTING OFFICER (Type or print)
R. R. MORRISON

19. DATE SIGNED
03 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129856

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1X	84APR05		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,973.00

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It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2510A (080)

2. The Job Order Price is increased by $9,973.00. **DUPLICATE ORIGINAL**

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-24-84	R. W. BEIL	01 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129857

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1X	84APR05		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2510A (080)

2. The Job Order Price is increased by $9,973.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-24-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129858

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 /X	080

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2510 A

PCN: XXXXXXXX

PLANNER: Madden

TITLE: Propulsion Turbine and Reduction Gear Journal Bearings and Thrust Bearings: Repair and Test

SCOPE: Item 2510 page 2510-6 after paragraph ~~8~~ K insert the following:

L. At the completion of all new structural and outfitting work the Contractor shall supply all labor, material and technical analysis to perform the following:

a. Check that all propulsion shaft bearings are in good mechanical condition and are functioning properly. This includes clearances, wear pattern, oil ring functioning, proper lubrication, bearing material condition, etc. Submit report of bearing condition to COMSC CONREP prior to commencement of the following items.

b. Measure propulsion shaft bearing reactions using an approved method while vessel is afloat.

c. Submit a report to the COMSC CONREP containing all data and graphs used to evaluate the alignment of the lineshaft bearings.

d. Make recommendation to COMSC CONREP of corrective action needed to align bearings specifying the amount and direction that each bearing should move.

☑ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 9973 –

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/5/84 (Date)

CONTRACTOR _____ CONTRACT NO. ~~N00033-70-C-0075~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 6APR84

NWMAR129859

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 /X	080

e. Align the shaft in accordance with recommendations made in (d) above and approved by COMSC CONREP. For bid purposes the Contractor should estimate 40 man hours labor and $50.00 material to perform required realignment.

Reason: Specification Deficiency.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
IW	84MAR29		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$75,000.00

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12. DESCRIPTION OF AMENDMENT/MODIFICATION USNS OBSERVATION ISLAND (T-AGM-23)

1. The Government has determined that it is necessary to change the T-AGM-23 job order specifications for the work covered by attached specification item 2608 serial No. 045 and for the work to start before the final price can be negotiated. The parties agree to negotiate a firm fixed price for this work as expeditiously as possible. Pending completion of negotiations, a maximum increase of $75,000.00 is established. The parties agree that the equitable adjustment in job order price to be negotiated in accordance with the Changes Clause shall result in an upward adjustment of no more than $75,000.00.

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DUPLICATE ORIGINAL

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-16-84	R. W. BEIL	20 APR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR129861

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 (W)	045

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2608 New

PCN: XXXXXXXX

PLANNER: STEPHENS

TITLE: Develop Reefer Modification Specification and Drawings.

Reference: A. Reefer Meeting Notes of 24 JAN 82 that discuss required capacity and mission capability. (Attached)

SCOPE: A. INTENT

It is the intent of this Item to specify the Contractor's obligation to supply assistance to the Government representative in the development of a specification and drawings for modification of ships Reefer plant and boxes to meet Mission requirements.

B. SCOPE

The Contractor shall provide engineering and technical services to provide the following:

1. Write work specification to install the developed Reefer Modification to satisfaction of COMSC CONREP.

2. Design new boxes and/or redesign old to provide sufficient capacity to meet ship's Mission requirements.

3. Design replacement or upgrade existing equipment.

4. Provide sufficient drawings of necessary detail to support the Reefer Modification specification developed in Para B.1. above.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 W	045

5. Provide the COMSC CONREP with a price proposal quote to accomplish this Reefer Modification once design and specifications are completed.

6. The Contractor and the Contractor's design agent will meet often with COMSC CONREP and other members of the Government's overhaul management team (OMT) as necessary. The Contractor will keep COMSC CONREP informed as to progress in specification development, options available, and problems with recommended solutions. The COMSC CONREP, with OMT support, may further define these taskings at meetings and will make necessary Government decisions.

C. ACCOUNTING

The above listed services are limited to:

Time and materials not to exceed $75,000.00. Actual time expended will be the basis for charging under this item. Any unused funds shall be returned to the Government. Costs of labor and material shall be segregated. Unused funds shall be returned to the Government.

NOTE: Proposed work scope must be capable of execution within the current availability schedule.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 1W
2. EFFECTIVE DATE 84MAR29
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$75,000.00

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2. It is agreed that the above change will result in no adjustment in the delivery schedule of the T-AGM-23.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-16-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR129864

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 (W)	045

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2608 New

PCN: XXXXXXXX

PLANNER: STEPHENS

TITLE: Develop Reefer Modification Specification and Drawings.

Reference: A. Reefer Meeting Notes of 24 JAN 82 that discuss required capacity and mission capability. (Attached)

SCOPE: A. INTENT

It is the intent of this Item to specify the Contractor's obligation to supply assistance to the Government representative in the development of a specification and drawings for modification of ships Reefer plant and boxes to meet Mission requirements.

B. SCOPE

The Contractor shall provide engineering and technical services to provide the following:

1. Write work specification to install the developed Reefer Modification to satisfaction of COMSC CONREP.

2. Design new boxes and/or redesign old to provide sufficient capacity to meet ship's Mission requirements.

3. Design replacement or upgrade existing equipment.

4. Provide sufficient drawings of necessary detail to support the Reefer Modification specification developed in Para B.1. above.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	045

5. Provide the COMSC CONREP with a price proposal quote to accomplish this Reefer Modification once design and specifications are completed.

6. The Contractor and the Contractor's design agent will meet often with COMSC CONREP and other members of the Government's overhaul management team (OMT) as necessary. The Contractor will keep COMSC CONREP informed as to progress in specification development, options available, and problems with recommended solutions. The COMSC CONREP, with OMT support, may further define these taskings at meetings and will make necessary Government decisions.

C. ACCOUNTING

The above listed services are limited to:

Time and materials not to exceed $75,000.00. Actual time expended will be the basis for charging under this item. Any unused funds shall be returned to the Government. Costs of labor and material shall be segregated. Unused funds shall be returned to the Government.

NOTE: Proposed work scope must be capable of execution within the current availability schedule.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1V	84MAR29		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$12,929.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1702E (135), 1704C (138), 2507C (113)

2. The Job Order Price is increased by $12,929.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-16-84	R. W. BEIL	20 APR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129867

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1V	84MAR29		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$12,929.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes _____ (as changes in paying office, appropriation data, etc.) set forth in block 12

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1702E (135), 1704C (138), 2507C (113)

2. The Job Order Price is increased by $12,929.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-16-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129868

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 N	138

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1704 C

PCN: XXXXXXX

PLANNER: DIEL

TITLE: Alternate SW. Bd. Modifications.

SCOPE: Install replacement meters as follows:

2 EA 0.600 VAC
1 EA 0-600 Ampere Meter
1 EA 0-1000 Ampere Meter

These meters replace those identified in specifications for calibration but were found to be unrepairable.

REF: C.R. 369
PP 035 (Change Order)

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1014.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) Date 3/29/84

CONTRACTOR CONTRACT NO. N00033-84-JO-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Slept Date 3/29/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 IV	135

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1702 E

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: E.O.S. Electrical Meters

SCOPE: Provide labor, material, and equipment to remove, calibrate, and re-install the following meters:

1 - Frequency Meter
1 - Ampere Meter (Shore Power)
1 - Volt Meter

In addition remove two (2) selector switches associated with above listed frequency and voltmeters. Examine, and repair as required to provide correct operation. Re-identify selector points. Re-install switches.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1858 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/29/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slosh Date 3/29/84

NWMAR129870

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 N	113

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2507 C

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Boiler Cleaning And Inspections.

SCOPE: Additional Boiler, Starboard.

A. No. 1 Boiler, Starboard.

1. Mechanically Remove Plastic Chrome Ore from Boiler Tubes in the Rear Wall.
2. Renew Plastic Chrome Ore on Rear Wall Boiler Tubes.
3. Renew Missing and/or Broken Boiler Casing Studs & Nuts Approximately Fifty (50).
4. Renew Missing Boiler Door Casing Clamps (Dogs) approximately fifty (50).

B. No. 2 Boiler, Port.

1. Mechanically Remove Plastic Chrome Ore from Boiler Tubes in the Rear Wall.
2. Renew Plastic Chrome Ore on Rear Wall Boiler Tubes.
3. Renew Missing and/or Broken Boiler Casing Studs & Nuts approximately fifty (50).
4. Renew Missing Boiler Door Casing Clamps (Dogs) approximately fifty (50).
5. Remove the Rear of the Sidewall Corbell that is loose.
   a. Clean area in way of removal, and renew corbel (plastic chrome Ore material).

☑ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 10,057 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/29/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date	SUPERVISOR SHIP SURVEYOR Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 3/29/84

	JOB ORDER NO.	SERIAL NO.
OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001	113

In Response to C.R. 92.

Reason For Change: Not covered in Original Specification.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 1U
2. EFFECTIVE DATE 84MAR22
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

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10.

Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$14,564.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [X] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1631A (039), 2571A (070)

2. The Job Order Price is increased by $14,564.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED 4-10-84

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED 16 APR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129873

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1U	84MAR22		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

(Street, city, county, state, and ZIP Code)

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$14,564.00

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It modifies the above numbered contract as set forth in block 12.

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USNS OBSERVATION ISLAND (T-AGM-23)

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-10-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129874

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS: USNS OBSERVATION ISLAND (T-AGM-23)

JOB ORDER NO. N00033-84-J0-001 | SERIAL NO. 070

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2571 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Removal of Hull Appendages

SCOPE: A. Remove approximately one hundred fifty (150) additional hull appendages, from Port and Starboard sides, including old boat boom brackets, old net brackets, and old accomodation ladder brackets.

1. Grind smooth, after removal, and paint to match per Item 208

NOTE: Contact person for removals Chief Mate Wes Monts.

Reason For Change: Not enough covered in original specification.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 11,962.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/23/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 3/27/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS USNS OBSERVATION ISLAND

JOB ORDER NO. N00033-84-J0-001 | U | SERIAL NO. 039

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1631 A

PCN: XXXXXXXX

PLANNER: Diel

TITLE: VIBRATION MEASUREMENTS

SCOPE: Change Item 1631 E.3.e to Read:

Provide services of a qualified vendor equipped to take sufficient readings to verify satisfactory vibration characteristics of SSTG's and to record a signature under normal full load conditions with which to establish an as installed record for machinery history.

Reason For Change:

Betterment deemed to be required by CONREP.

[X] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 2602

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 3/23/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dwig Stept Date 3/27/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1T	84MAR22		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10 A	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$13,660.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 604A (107), 1207C (067), 2567A (095), 2577A (106)

2. The Job Order Price is increased by $13,660.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-6-84	R. W. BEIL	12 APR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129877

SUPSHIP SEATTLE
APR 9 10 0 AM '84
RECEIVED

NWMAR129878

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO: 1T
2. EFFECTIVE DATE: 84MAR22
3. REQUISITION/PURCHASE REQUEST NO.:
4. PROJECT NO. (If applicable):
5. ISSUED BY: CODE
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN,
Seattle, Washington 98115
6. ADMINISTERED BY (If other than block 5): CODE

7. CONTRACTOR NAME AND ADDRESS: CODE: FACILITY CODE:
(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS
[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.
Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:
(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$13,660.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS
(a) [ ] This Change Order is issued pursuant to _____
The Changes set forth in block 12 are made to the above numbered contract/order.
(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.
(c) [X] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause
It modifies the above numbered contract as set forth in block 12.

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USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 604A (107), 1207C (067), 2567A (095), 2577A (106)

2. The Job Order Price is increased by $13,660.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [X] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-6-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129879

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-JO-001	106

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2577 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE:

Eddy Current Survey of Main Condenser.

SCOPE: Plugging and leak testing main condenser tube sheet in accordance with NAVSEA 59086-SY-STM/000, Chapter 254.

1. Plug approximately twenty five(25) condenser tubes as directed by COMSC CONREP.
   a. Tubes are marked on Port side of Condenser with red paint.
2. Upon completion of tube plugging repairs, conduct a leak test in accordance with Chapter 254.
   a. Roll approximately one hundred (100) tubes.
   b. Conduct additional leak test after rolling tubes.

In response to C.R. of 297 on Eddy current survey.

Reason For Change: Repairs not in original specification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5328 -

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 3/22/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-JO-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dip Capt Date 3/23/84

NWMAR129880

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001	095

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2567 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Anchors, Anchor Chains and Associated Ground Tackle.

SCOPE: Replace with new ten (10) taper pins.

In response to C.R. 296.

Reason For Change: Not included in original specification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 639-

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/22/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Capt Date 3/23/84

NWMAR129881

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	067

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1207 C

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Communications Control Center Modifications

SCOPE:

1. Reduce the scope of work by deleting the unnumbered seventh paragraph on page 1207-2 that begins, "Temporarily remove receiver Swbd....."

Reason for change: Units were removed by Sponsor.

2. Reduce the scope of work by deleting all drill holes in the equipment rack foundations. This change will no longer require NMIW to drill the 44 holes into the foundations.

Reason for change: Sponsor will drill holes to facilitate installation of racks.

3. Reduce the scope of work by changing page 1207-3 paragraph 5 to read "Smooth entire floor..., (vice level entire floor...)

Reason for change: A level deck is unnecessary.

4. Change the unnumbered first paragraph on page 1207-2 to read "Install foundation for twelve (12) racks as shown... (vice "Install foundation for eleven (11) racks as shown...). Also, replace reference B.2. CCC arrangement 1984 Fig 1207-2 with the

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3443.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 3/22/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stepl Date 3/23/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	

updated CCC Arrangement after 1984 yard period Figure 4-1 dated 16 November 1983 (enclosed). This figure shows the additional rack and the new configuration dimensions. Rack foundation drawing will have to be modified to account for the additional rack and the new configuration for the four vertical consoles positioned athwartship to port between frames 83 and 84.

Reason for change: Specification error.

5. Change the unnumbered sixth paragraph on page 1207-3 to read "The Contractor shall provide a dropped ceiling and bulkhead paneling in the Comm. Control Center. To insure a maximum overhead clearance all overhead piping, ducts, and fixtures will be moved up to the maximum extent possible. The deck to ceiling clearance is to be a suitable distance, 87 to 92 inches above the rack foundations. No dropped ceiling structure or material is to be positioned above any of the racks. The space above the racks is to be flashed to the drop ceiling. The flashing and ceiling panel installation is not to be installed until Sponsor cable installation is complete. Flashing will be removable such that access to internals can be easily accessible. The vent for the pyrotecnic destruct device in compartment 02-8-0-Q which is presently routed through the Comm. Center Space may be elbowed to insure maximum clearance above the false ceiling. (Vice: "The Contractor shall provide a dropped ceiling and bulkhead paneling in the Comm. Control Center. To insure a maximum overhead clearance, all overhead piping, ducts, and fixtures will be moved up to the maximum extent possible to maximize the deck-to-ceiling clearance which must be no less than 95 inches.")

Reason for change: Specification error.

6. Add the following paragraphs to Item 1207 E.4:

Two surface mounted light fixtures shall be mounted in a convenient location on the Aft Bulkhead just below ceiling height, behind the three racks.

Four surface mounted light fixtures shall be mounted in a convenient location on the Forward Bulkhead just below ceiling height, behind the nine racks. These fixtures should be positioned to provide sufficient light to allow work to be done behind all of the racks specified.

A four inch electrical junction box shall be installed on the forward bulkhead above the 95" level on the forward bulkhead of the Comm. Control Center, and the two existing electrical cables, terminated inside the box

Reason for change: Specification error.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	067

7. Add the following paragraph to Item 1207.E.1

Complete insulation on the port bulkhead in the Message Processing Center as directed by COMSC CONREP. Area of insulation needed is approximately 6 sq ft.

The instruction book shelf presently in the Comm. Control Center space shall be installed above the two file cabinets.

Reason for Change: Specification error.

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	107

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 604 A

PCN: XXXXXXXX

PLANNER: SANBORN & DIEL

TITLE: Installation of Fixed Ballast

SCOPE: Provide labor and material to accomplish the following:

Void 4-82-0

1. Flush off the hull connection spool pieces at frame 91 Port and Starboard.

   ~~Install a 12" diameter insert in way of each removed hull connection. Patch to be of equal material to hull plate, fitted, welded and tested to the approval of ABS and COMSC CONREP. Paint disturbed areas to match existing paint coatings.~~

   S. 29 Feb 84

2. a. Cut the 1½" contaminated oil system piping 1½' Aft and forward of Bulkhead 82 and 98 that runs on the Starboard side just above the cement ballast, save for reinstallation.

   b. Stabilizer Room 5-98-0
   Cut the raiser of each contaminated oil system pipe and add 4' of 1½" Sch 40 pipe and connect with socket weld couplings. Cut out the bulkhead penetrations as a whole and move up 4' insert bulkhead.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 4250.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 3/22/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slept Date 3/23/84

c. MSD Room 5-57-0-Q

Cut out the bulkhead penetrations as a whole and move up 4', insert bulkhead. Cut piping back 2' inbound, reconnect using socket weld 90° ells and 4' raiser to each pipe.

d. Void 4-82-0

Reconnect the contaminated oil system piping in the void using socket weld couplings.

Material for above piping work:

16' - 1½" sch. 40 pipe
8ea - 1½" socket weld coupling
4ea - 1½" socket weld 90° ells
16ea- 1½" pipe hangers

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1S	84MAR16		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$5,472.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2621 (093)
2. The Job Order Price is increased by $5,472.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE.

14. NAME OF CONTRACTOR/OFFEROR
BY Donald Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-3-84	R. W. BEIL	09 APR 1984

30-101 Modified SUPSHIP 13 OR 41 (Rev. 8-70)

NWMAR129887

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1S	84MAR16		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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10. Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$5,472.00

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(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

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3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

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14. NAME OF CONTRACTOR/OFFEROR		17. UNITED STATES OF AMERICA	
BY Donald E. Nugent (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	
15. NAME AND TITLE OF SIGNER (Type or print) Donald E. Nugent Project Manager	16. DATE SIGNED 4-3-84	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR129888

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM	N00033-84-JO-001 S	093

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2621 New

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Classification and Regulatory Inspection Requirements for the Vessels Rudder and Appurtenances.

SCOPE: Provide labor, material, and equipment required to perform the following:

Remove drain plugs noting liquid drainage if any. If rudder is apparently free of leakage connect air hose and suitable gauge, pressure test, search and mark up leaks. Repairs if any will be the subject of an additional item which will include gas freeing rudder, re-testing and re-preserving. On completion re-plug rudder. Take pintle wear measurements. Make necessary removals to take rudder stock bearing clearance readings and close up in good order. Examine all rudder connections externally and internally and report results with clearance readings. Provide classification surveyor examination opportunities as required. Make necessary inspection access plate removals and replacements to permit examination.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5472.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/16/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Nix [signature] Date 19 Mar 84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1R	84MAR15		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$3,487.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1618B (089), 2561A (097)

2. The Job Order Price is increased by $3,487.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

15. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-3-84	R. W. BEIL	09 APR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129890

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1R	84MAR15		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$3,487.00

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(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1618B (089), 2561A (097)

2. The Job Order Price is increased by $3,487.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-3-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129891

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 R	Ø89

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1618 B

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: SSTG Condenser Overboard Offsticker and Gate Valve.

SCOPE: Provide labor material and equipment required to install a 4" I.P.S. sche 80x6" long black iron pipe offsticker in the capped end of the salt water overboard piping shown in Dwg 5985227 sheet 2 of 3 plan 11E piece F25 by full penetration welding. Inboard end of offsticker to be fitted with a 150# slip-on flange welded in place and a 150# nodular iron body gate valve with blank flange bolted in place with gaskets.

Reason for Item: To provide for later installation of warm salt water evaporator feed line while vessel is on drydock.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1787 -

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/16/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 19 Mar 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001 R	097

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2561 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Magnetic Compass Calibration.

SCOPE: During open & inspect of old compass by compass adjuster it was noted, old compass had various compass manufacturer parts in it. Replace with new compass with BL-7.5 Navy standard reflector compass or equal.

Note: NMIW's compass expert can procure above compass in one (1) week.

[ ] Above work will be completed by current Job Order completion date of ~~05 July 1984~~
[X] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1700

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Wright (Signature) 3/16/84 (Date)

CONTRACTOR

CONTRACT NO. ~~N00033-70-C-0075~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dip Date 19 Mar 84

NWMAR129893

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
10	84MAR15		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$23,265.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

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The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1621A (103), 1627A (108), 1803D (079), 2507B (101)

2. The Job Order Price is increased by $23,265.00. DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-3-84

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
09 APR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129894

SUPSHIP SEATTLE
APR 6 9 47 AM '84
RECEIVED

NWMAR129895

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
10	84MAR15		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$23,265.00

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It modifies the above numbered contract as set forth in block 12.

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USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1621A (103), 1627A (108), 1803D (079), 2507B (101)

2. The Job Order Price is increased by $23,265.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-3-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129896

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS USNS OBSERVATION ISLAND T-AGM 23

JOB ORDER NO. N00033-84-JO-001 Q

SERIAL NO. 103

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1621 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Install Salinity Indicator Cells.

SCOPE: Provide labor, material, and equipment required to install existing Salinity Indicator Cells as follows:

When all interferences can be determined by sighting new condensate piping, spud in a 1" extra heavy black iron pipe coupling as directed in three locations.

Install existing salinity indicator valves in the couplings.

Install cable from the salinity indicator in the E.O.S. to three locations nearby the cell sites, connect to a marine receptacle, provide matching plugs and install on salinity cell probe pigtail. Insert probes through valves.

Note: These installations shall be shown on as built drawings.

[X] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5500 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/16/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 19 Mar 84

NWMAR129897

PRICE PROPOSAL
12ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 \Q	108

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1627 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Steam Piping For SSTG's

SCOPE: Supply labor, material, and equipment required to replace wasted drainline offstickers.
Welding to be included in proceedure presented for approval.

Reason For Change: Condition determined when pipe removed for modification.

Re: C.R. 316 and 347

☑ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 2500.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 3/16/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [signature] Date 19 Mar 84

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 Q	079

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1803 D

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: 04/05 Level Support System for X-band

SCOPE: Add the following to para D.3.(d)

After "a maintenance phone jack " insert "Temporarily pull back all the disconnected cables and reroute cables under the remaining false deck to the new location of the connection box. Cable splices or junction boxes shall be used to extend the cables."

Add the following to para D.3.1.

(n) Temporarily disconnect and pullback the power cables for the A2 Radome. Reroute the cables using the existing cableway on bulkhead 96 to the overhead, penetrate the new machinery space bulkhead and reconnect to the A2 Radome.

(o) Temporarily disconnect and pull back circuit ZEL4-4 power feeder from the first junction box. Reroute cable under the 04 LVL to an existing penetration near the mast. Reconnect cable to junction box. All other cable runs in this circuit shall be disconnected, pulled back and rerouted as necessary to clear the new machinery space.

(p) Temporarily disconnect and pull back unidentified lighting circuit to 05 LVL rail light. Reroute cable in existing overhead

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3304

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 3/16/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date	SUPERVISOR SHIP SURVEYOR Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stept Date 19 Mar 84

NWMAR129899

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	079

cableway and reconnect.

(q) Temporarily disconnect and pull back oakite junction box power supply. Reroute cable fwd of bulkhead 96, penetrate 04 Lul OK and reconnect to the junction box.

Reason For Change: In response to C.R. #200 & 278.

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 Q	101

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 2507 B

PCN: XXXXXXX

PLANNER: LEMOS

TITLE: Boiler Cleaning and Inspection

SCOPE: Replace unsafe, obsolete Auxiliary Steam Reducer Station. Relates to Item reference B.2.(i).

1. Remove all components of Auxiliary Steam Reducer Station, including but not limited to 1½" By-pass valve, located in Engine Room Upper Level, Port side, Fr. 114. Remove 1½" Off-Sticker from 600 PSI Aux Steam line and remove 1½" flange and swedged reducer bell from downstream end of Reducer Station. Furnish and install new 3" Off-Sticker w/flange in place of the one removed and furnish and install new 3" flange in place of the one removed from downstream end.

2. Furnish and install new Auxiliary Steam Reducer Station consisting of one (1) Steam Reducing Valve, 600 to 150 PSI, 800° F., 3" diam. flanged, approx. capacity 40,000 lbs./hr.; one (1) Steam Strainer, 600 PSI, 800°F., 3" diam. flanged; two (2) Steam Stop Valves, 600 PSI, 800° F., 3" diam., flanged, globe type. One 1½" diam Stop Valve (Bypass) Globe, 600 PSI, 800° F., flanged. Insulation of components to be of the removable blanket type using USCG approved materials.

3. All welds to be performed by ABS/USCG Certified Welder and all work to comply with applicable requirements of Regulatory Bodies, including hyrostatic testing and/or radiography of welds.

XX Above work will be completed by current Job Order completion date of 06 July 1984

☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 11,961 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 3/16/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date	SUPERVISOR SHIP SURVEYOR Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Capt Date 19 Mar 84

NWMAR129901

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1P	84FEB21		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,502.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 804A (031)

2. The Job Order Price is increased by $21,502.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
3-21-84

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
26 MAR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129902

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
P.O. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1P	84FEB21		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,502.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 804A (031)

2. The Job Order Price is increased by $21,502.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
3-21-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129903

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 P	031

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 804 A

PCN: XXXXXXX

PLANNER: Sanborn

TITLE: WSC-3 Antenna Installation

SCOPE:

1. Page 804-2 Section E.1. Paragraph 2 Change to Read:

   "Install foundations and Amplifier Filters (two previously removed for reinstallation and two additional GFE at the 124 foot level, one forward mounted to the inside of WSC-3 Antenna Platform handrailing and one aft mounted to the inside of WSC-3 Antenna Platform handrailing on both the port and starboard sides (total of four Amplifier Filters).

2. Page 804-2 Section E.4. Paragraph (a) Change to Read:

   (a) Four runs of 3-SWU-7 cable, two each from the port and starboard AS-3018/WSC-1(V) antennas to the Antenna Control Unit C-9597A, located in Compartment 02-89-0-Q. The cables shall follow the same routing through the ship as the relocated existing cables (relocated by Item 1207) for the two AS-3018A/WSC-1(V) antennas. The approximate length of each cable is 275 feet. Install four runs of 7/8" Heliax cables from the four Amplifier Filters to the four each 3018/WSC-1(V) antennas two existing and two new.

   Page 804-3 Section E.4.(b) second sentence: Change to read:

   These cables shall follow the same routing as the relocated existing AM 6691A/WSC-1(V) Amplifier Filter cable runs (relocated by Item 1207).

☑ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 21,502 =

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 21 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 22 Feb 84

NWMAR129904

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
10	84FEB23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$76,230.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of the Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2610 (059)
2. The Job Order Price is increased by $76,230.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	3-21-84	R. W. BEIL	26 MAR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR129905

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
10	84FEB23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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- Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$76,230.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

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It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2610 (059)
2. The Job Order Price is increased by $76,230.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
3-21-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR129906

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 / 0	059

COAR NO: [ ]

ITEM NO: 2610 New

PCN: XXXXXXXX

PLANNER: STEPHENS

TITLE: Contractor Assistance For Sponsor

SCOPE: A. INTENT

It is the intent of this item to specify the Contractor's obligation to supply assistance to the sponsor.

B. SCOPE

The Contractor shall provide the following services for purposes of assistance when requested by the Senior Sponsor Representative.

a. 2000 man-hours of various crafts.
b. Materials not to exceed $3000 total ~~value~~. cost

23 FEB.

C. ACCOUNTING

The above listed services and material will be provided in response to a written job order issued by the ESMC Senior Sponsor Representative with a list of estimated services required. The Contractor shall return the job order to the ESMC Senior Sponsor Representative with actual time expended filled in. Actual time expended will be the basis for charging under this Item. Any unused funds shall be returned to the Government. Reason: This change is necessary to correct quality assurance discrepancies and to improve living conditions aboard ship.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 76,230 -

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Dugat (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 28 Feb 84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1N	84FEB23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$15,477.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes _____ as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [X] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 506A (073), 1208B (086), 1605A (081), 1703E (088), 1802G (087), 2508A (071), 2527B (075), 2527C (077)

2. The Job Order Price is increased by $15,477.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [X] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
3-21-84

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
26 MAR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129908

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1N	84FEB23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____.
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$15,477.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 506A (073), 1208B (086), 1605A (081), 1703E (088), 1802G (087), 2508A (071), 2527B (075), 2527C (077)

2. The Job Order Price is increased by $15,477.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	3-21-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129909

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001 IN	077

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2527 C

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: 200 K.W. Emergency Diesel Generator

SCOPE: Electric starting mechanism was found to have the current carrying contacter silver faces burned. Faces cannot be dressed.

1. Remove the damaged parts (contacts), and renew the silver contact face pieces of four (4) moving contactors and four (4) stationary contactors, on reassembly adjust open position contactor clearances to manufacturers specifications.

Reason For Change: Not in original specification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1480.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stapt Date 28 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001 | N	075

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2527 B

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: 200 KW Emergency Diesel Generator

SCOPE: Delete paragraph (N) (2). and insert the following new paragraph:

(2) After ensuring the compartment is adequately vented or provide and install a temporary exhaust blower fan adjacent to generator and exhausting to topside atmosphere the Contractor shall, with exhaust fan in operation, accomplish in-place cleaning of stator coils, armature windings, brush rigging, commutator, slip rings, air gap annodes, end bell housing and the Switchboard interiors using a U.S.C.G. approved solvent spray. Contractor shall ensure that no solvent is allowed to drain in the bilges, and all used solvent shall be carefully contained and safely disposed.

In response to C.R. 128.

Reason For Change: Not included in original specification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1131.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Date 28 Feb 84

NWMAR129911

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001 N	071

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2508 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Sootblower Repairs

SCOPE: A. Renew soot blower heads twenty (20) total, ten (10) per boiler, with copes vulcan model D-5A.

Reason For Change: Old soot blower heads beyond economical repair.

NOTE: The soot blowers can be obtained from:

Liniger-Western Instruments Inc.
7214 Woodlawn Ave. N.E.
Seattle, Wash. 98115

Telephone No. 503-232-2876

Attn: Geo. Pell

Delivery time: 4 to 6 weeks

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 7240.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stept Date 28 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 N	087

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1802 G

PCN: XXXXXXX

PLANNER: MADDEN

TITLE: Structural Modification For X-Band.

SCOPE: Machining requirements for barbette as stated on reference B.1.c will be revised by others to include 2" DIA spotfacing of upper barbette flange underside for 96 bolt seats. The Contractor is to perform the above spotfacing in conjunction with drilling the barbette.

Reason For Change: Drawing Deficiency.

☐ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1430 -

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 Feb 84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slept Date 28 Feb 84

NWMAR129913

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 IN	088

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1703 F

PCN: XXXXXXX

PLANNER: DIEL

TITLE: SSTG Power and Control Cable

SCOPE: Add the following to 1703 E.2

"Relocate a manhole to frame 120/121 per NNIW Dwg. 5985205-01 Rev. 0 submitted with condition report."

Reason For Change: Relocation could not be anticipated prior to templating on board.

Re: C.R. 295

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 2210.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 Feb 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 28 Feb 84

NWMAR129914

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 N	081

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1605 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Engine Room Insulation Removal/Replacement

SCOPE: Item 1605 references to Item 207 (insulation and lagging requirements) are specifically waived in the case of atmospheric escape piping, and the substitution of 1½" thick calcium silicate pipe insulation is approved. Item 207 lagging requirements are to be adhered to.

A reduction in the bid price of the Item is required to recognize the use of a lesser grade material.

In Response to C.R. 254.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <334.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Elgt Date 28 Feb 84

NWMAR129915

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 IN	086

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1208 B

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Doppler Speed Log Gate Valve Installation.

SCOPE: Add the following sentence to the beginning of paragraph 1208, E.3 on page 1208-2:

"Assemble and install the seachest assembly base Raytheon P.N. 935444-1 (this base was supposed to be included in the Doppler Speed Log Seachest assembly, Raytheon P.N. 935443-1).

Reason For Change: GFM Piece Not Provided.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1233.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slept Date 28 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-001 / N	073

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 506 A

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Power System - Miscellaneous Antenna

SCOPE: Delete article D.4. paragraph 3 in its entirety and replace with with the following:

"Disconnect the existing cable, ripout the antenna connector, and cable back to its origination point. Install new similar cable from the origination point to the new antenna location. Connect the cable at the line termination box using an andrew type 42w connector."

Reason For Change: Existing cable too short.

This is in response to C.R. #129.

[XX] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1037.=

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 29FEB84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [signature] Date 5 MAR 84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1M	84FEB23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

- Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$5,563.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2611 (060), 2618 (090)
2. The Job Order Price is increased by $5,563.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	3-21-84	R. W. BEIL	26 MAR 1984

20-101 Modified SUPSHIP 12 OR 41 (Rev. 8-70)

NWMAR129918

SUPSHIP SEATTLE
MAR 26 9 2- AM '84
RECEIVED

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1M	84FEB23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$5,563.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2611 (060), 2618 (090)
2. The Job Order Price is increased by $5,563.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	3-21-84		

NWMAR129920

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 M	090

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2618

PCN: XXXXXXX

PLANNER: DIEL

TITLE: Overhaul A.D.P. Area Air Conditioning and Air Handling Units.

SCOPE: Provide labor, material, and equipment required to examine, perform all necessary preventive maintenance including but not limited to leak checking, replacement of incorrectly sized pulleys of the air handling units. After repairing leaks if any, evacuate system and recharge to correct quantity. Replace all worn or damaged parts found. Test operate units to satisfaction of SONREP/Chief Engineer and adjust control and safety settings as required on the following described equipment.

NAMEPLATE DATA: Trane A/C Unit
Model # KWDA10040E
Type # DL4417-2411-1
Serial # S80C-03321
Rated Voltage: 460

Trane Climate Changer, Draw-Thru
Model #CCDA255HOA, Unit Type
Serial # K80B02561 & K80B02562
20 HP, 460 VAC, 3 PH, 60 H2, 27 AMPS

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 2177.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 29 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [signature] Date 1 MAR 84

NWMAR129921

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-70-C-0075 IM	060

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2611 New

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Main Engine Astern Guardian Valve.

SCOPE: A. INTENT

It is the intent of this Item to specify work to be accomplished by the Contractor to repair the main engine astern guardian valve.

B. REFERENCES

1. Walworth, Flanged, 6IPS, Globe, DWG A9879M5A, APL 882052008

2. The following Specification Items are applicable to this Item:

(a) 201 Regulatory Bodies, Standards and Certificates
(b) 203 Materials and Workmanship
(c) 207 Insulation and Lagging
(d) 208 Painting
(e) 211 Pressure Piping
(f) 214 Testing
(g) 217 General Provisions for Removals

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 3386 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slept Date 28 Feb 84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND (T-AGM-23)	N00033-70-C-0075 M	060

C. SCOPE OF WORK

1. Remove and reinstall interferences necessary to accomplish work required by this specification.

2. Unbolt and remove Astern Guardian Valve, from ship to shop.

   (a) Restore mating surfaces exposed by removal, make minor repairs by removing high spots, burrs, abrasions, nicks and foreign matter.

3. Disassemble valve, clean all components, restore all intregal parts to manufactures specifications.

4. Reassemble using all new fasteners and gaskets.

   (a) Hydrostatically test @ 900 PSIG on both sides of the disc for a period of ten (10) minutes, allowable leakage, none.

   (b) Above test to be witnessed by MSC COMREP and Chief Engineer.

5. Return to Ship and install valve in respective original location using new Gaskets and Fasteners.

   (a) Restore insulation (lagging blanket/pad).

6. Clean, prepare, prime, and paint all new and disturbed surfaces to match the surrounding area.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1L	84FEB21		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$18,234.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 802B (024), 1702D (040), 1703D (041), 1704A (058), 1802H (072), 2102A (050), 2507A (053), 2589A (049), 2590A (068)

2. The Job Order Price is increased by $18,234.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
3-21-84

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
26 MAR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129924

SUPSHIP SEATTLE
MAR 26 9 36 AM '84
RECEIVED

NWMAR129925

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 1L	2. EFFECTIVE DATE 84FEB21	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$18,234.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 802B (024), 1702D (040), 1703D (041), 1704A (058), 1802H (072), 2102A (050), 2507A (053), 2589A (049), 2590A (068)

2. The Job Order Price is increased by $18,234.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR BY Donald E. Nugent (Signature of person authorized to sign)	17. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)
15. NAME AND TITLE OF SIGNER (Type or print) Donald E. Nugent Project Manager — 16. DATE SIGNED 3-21-84	18. NAME OF CONTRACTING OFFICER (Type or print) — 19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129926

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001	068

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2590 A

PCN: XXXXXXXX

PLANNER: CRONCR

TITLE: Painting Under Water Body

SCOPE: Main Condenser Injection Scoop, Sea Chest.

1. Remove welded in bars, replace with bolted in type.

   (a) Fabricate new brackets and bars, weld in new brackets, bolt in new bars to brackets.

Reason For Change: Not in original specification.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1520 -

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slept Date 28 Feb 84

NWMAR129927

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001	049

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2589 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Hull Zinc Protectors

SCOPE: Cancel this Item in its Entirety

Reason: Zinc's appear to be active and wear is very minimal at this time.

[X] Above work will be completed by current Job Order completion date of 6 JULY 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <10,043.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 21 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Date 22 Feb 84

NWMAR129928

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USMS OBSERVATION ISLAND (T AGM-23)	N00033-84-JO-001	053

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2507 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Boiler Cleaning and Inspections

SCOPE: No. 1 and 2 Boiler, Safety Valve Escapement and Drain Piping; Align.

1. Disconnect second flange from safety valve and adjust piping/flange/hangars.
2. Make up piping joints, so there is no tension.

This is in response to C.R. #118

Reason For Change: Not covered in original specification.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 2,629 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 21 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 22 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-0011	050

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2102-A

PCN: XXXXXXX

PLANNER: SANBORN

TITLE: Space Preparation

SCOPE:

1. Install sufficient cable hangers to the forward and inboard bulkhead stiffners of space 03-87-2-L and reroute approximately thirty cables which are laying on the deck into the new cable hangers.

   Note: The cable hangers shall be installed as close to the bulkhead stiffners as possible.

2. Disconnect and mark the leads on the two Beldin 9253 TV Camera Cable which run from the 3CM and 10CM switching units (in the wheel house) and pull back to 02 level. Install a "Hofman" enclosure with two 30 terminal barrier strips one for the 3CM and one for the 10CM. Mount the enclosure to the port outboard bulkhead of the distruct room between frs. 92-93. Connect the pulled back cable leads to one side of the terminal box, provide and install new Beldin 9253 cable from the switching units to the other side of the terminal box. The two new cables shall follow the rerouted cables through space 03-87-2-L.

Reason For Change: In responce to C.R. 031

[X] Above work will be completed by current Job Order completion date of July 6, 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 5485

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Degut (Signature) 23FEB84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Capt Date 28Feb84

NWMAR129930

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-0011	072

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1802 H

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Structural Modifications For X-Band Installation

SCOPE: Add the following to para D.3.2

(k) Ripout 2 portholes bulkhead 134 in space (02-123-0-L) mess and lounge. Portholes shall be saved and returned to COMSC CONREP for disposition. Insert plates shall be installed to cover porthole openings. 2 new Government furnished rectangle windows shall be installed in bulkhead 134 to replace the ripped out portholes. The approximate rough opening for the new windows will be 18"x30" (w x h). Final dimensions shall be determined by the Contractor from the actual windows. These windows shall be located approximately 32 inches center to center inboard from each ripped out porthole. The Contractor shall provide all material and labor necessary for a complete installation including but not limited to structural steel for upper and lower window headers, window gaskets and mounting hardware and all joiner work. The Contractor shall also remove the electrical junction boxes from the Government supplied windows.

This is in response to C.R. 203.

Reason For Change: Specification deficiency.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 4265-

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Sept Date 28 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	058

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1704 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Alternate Switchboard Modifications - Additional Work

SCOPE: Delete the following sentences from E.4.(a)(2)

"Modify the existing circuit breaker mounting plates, bus extensions and front panels as required to accept the new circuit breakers. New specified circuit breaker dimensions and stud configurations are substantially the same as the existing breakers."

Add the Following Statement to E.4.(a)(2)

In the Alternate Switchboard, remove existing Circuit Breaker Mounting Block supporting sheet metal channels for 19 Circuit Breakers being renewed per table 1704-1.

Fabricate new supporting channels of correct dimensions to accept G.E. type Circuit Breaker Mounting Blocks and install channels in the Switchboard to fit configuration of replacement new Circuit Breakers. Modify bus extensions and front panel plates as required to accept the new circuit breakers.
Re: C.R. 125

Reason For Change: Work cannot be done as described in Specification.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 4800.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 21 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 22 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-JO-001	041

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1703 D

PCN: XXXXXXXX

PLANNER: Diel

TITLE: Additional to Item 1703 E.4.1

SCOPE: Add the Following:

Utilize three circuit breakers (1-20 AMP and 2-15 AMP) removed from alternate switchboard on another item. Prior to installation place the breakers in the hands of a qualified facility for cleaning, examination, and check of trip setting valves. Tag breakers showing date of this work.

[X] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1200.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 21 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slapt Date 22 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 L	040

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1702 D

PCN: XXXXXXX

PLANNER: Diel

TITLE: 1702.2.(g.). Clean, Dip, and Bake Three (3) 50 KVA LTG X Frames.

SCOPE: Add the Following Sub-Item

(g) Remove transformers from the vessel to shop. Clean external surfaces, Bake, and Vacuum impregnate with approved insulation sealing material.

Re: C.R. 93

Reason For Change: Not Specified in 84-01

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 2375 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 21 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 22 Feb 84

NWMAR129934

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 11	024

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 302 B

PCN: XXXXXXX

PLANNER: SANBORN

TITLE: Forward Mast Fabrication and Installation

SCOPE: Changes to Contractor's Working Drawing T-AGM 23-171-5985210 (relates to Item reference B.1.(c). T-AGM-23-171-4845114

1. Detail 8-A

   Increase the height of the top section of the 15.3# plate from 3'-6" to 7'-6" maintaining the same outside diameter at the top (28.8") for the port and starboard foremast legs. Using one (1) 8'-0" ladder from WSC-1 antenna mast (detail 13-D) increase the height of access ladders on the port and starboard foremast legs as shown on detail 5-D.

2. Delete: Details 13-A, 13-D, 34-A and 34F shown on Contractor's working Drawing T-AGM 23-171-5985210.

3. Insert new: Details 13-A, 13-D and 34-A (enclosures 1,2 and 3).

4. Detail 6-E

   Raise the port and starboard muldipole antenna foundations as

[X] Above work will be completed by current Job Order completion date of ~~06 July 1984~~
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 6003 02

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 23 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 28 Feb 84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N0003-84-J0-001 11	024

shown on detail 6-E to the 130'-0" height on the stubmast, the structure will remain the same as shown on detail 25-A.

NOTE: Enclosures 1 through 3 submitted to show changes only.

Reason for Change: Sponsor Request

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1K	84MAR01		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N. W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$692,217.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. The Government has determined that it is necessary to change the T-AGM-23 Job order specifications for the work covered by specification item numbered 2626, Serial No. 109 and for the work to start before the final price can be negotiated. The parties agree to negotiate a firm fixed price for this work as expeditiously as possible. Pending completion of negotiations, a maximum increase of $692,217.00 is established. The parties agree that the equitable adjustment in job order price to be negotiated in accordance with the Changes Clause shall result in an upward adjustment of no more than $692,217.

2. It is agreed that the above change will result in no adjustment in the delivery schedule of the T-AGM-23.

Copy to:
COMSC WASH DC (Code M-10-3), (Code M-4E3)
COMSC CONREP Portland, OR

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY _____ (Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print): Vice President

16. DATE SIGNED: 3-09-84

17. UNITED STATES OF AMERICA

BY _____ (Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print): R. R. MORRISON

19. DATE SIGNED: 14 MAR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129937

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1K	84MAR01		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N. W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$692,217.00

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USNS OBSERVATION ISLAND (T-AGM-23)

1. The Government has determined that it is necessary to change the T-AGM-23 Job order specifications for the work covered by specification item numbered 2626, Serial No. 109 and for the work to start before the final price can be negotiated. The parties agree to negotiate a firm fixed price for this work as expeditiously as possible. Pending completion of negotiations, a maximum increase of $692,217.00 is established. The parties agree that the equitable adjustment in job order price to be negotiated in accordance with the Changes Clause shall result in an upward adjustment of no more than $692,217.

2. It is agreed that the above change will result in no adjustment in the delivery schedule of the T-AGM-23.

Copy to:
COMSC WASH DC (Code M-10-3), (Code M-4E3)
COMSC CONREP Portland, OR

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14. NAME OF CONTRACTOR/OFFEROR		17. UNITED STATES OF AMERICA	
BY _____ (Signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	
15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Vice President	3-09-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129938

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1J	84FEB10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$15,327.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2616 (065)
2. The Job Order Price is increased by $15,327.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
2-28-84

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
05 MAR 1984

NWMAR129939

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1J	84FEB10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$15,327.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

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(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2616 (065)
2. The Job Order Price is increased by $15,327.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	2-28-84		

NWMAR129940

PRICE PROPOSAL
(13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 \J	065

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2616

PCN: XXXXXXX

PLANNER: STEPHENS

TITLE: Remove Concrete Ballast, Main Deck, STBD Side

SCOPE: A. INTENT

It is the intent of this item that the Contractor provide all labor and material to remove the concrete ballast located on the Main Deck, Stbd Side.

B. REFERENCES

The following Specification Items are applicable to this Item:

1. 201 Regulatory Bodies, Standards and Certificates
2. 203 Materials and Workmanship
3. 208 Painting
4. 217 General Provisions for Removals
5. 603 Stability Tests

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None.

D. REMOVALS

1. The Contractor shall provide up to 350 man-hours to rip out (by scarfing) steel plate (around concrete Ballast) of

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 15,327

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 13 Feb 84

NWMAR129941

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-0011 J	065

approximately 425 linear feet and rip out (by scarfing) steel plate (around concrete Ballast) of approximately linear feet and rip out approximately 32.7 tons of concrete.

2. The Contractor shall provide up to 50 man-hours to chip flush areas in way of rip out and paint in accordance with Item 208.

3. The Contractor shall provide up to 8 hours of crane service to offload scrap from vessel.

4. The Contractor shall provide up to 8 hours of truck service to dispose of scrap.

5. The Contractor shall provide materials not to exceed $200. in total value.

E. ACCOUNTING

The Contractor shall record actual time expended which will be the basis for charging under this Item. Any unused funds shall be returned to the Government.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1I	84FEB10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$2,286.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

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(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2615 (064)
2. The Job Order Price is increased by $2,286.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	2-28-84	R. W. BEIL	05 MAR 1984

NWMAR129943

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1I	84FEB10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

- Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$2,286.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2615 (064)
2. The Job Order Price is increased by $2,286.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	2-28-84		

NWMAR129944

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	064

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2615 NEW

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Repair one (1) air conditioning compressor motor. (Mfr. Welco Elect. Co., 60HP 440 VAC 3PH 60HZ Frame NS44 72 AMPS Full Load)

SCOPE: Provide labor, material, and equipment to disconnect motor mechanically and electrically, rig out of ship and transport to an approved facility. Disassemble motor and check rotating assembly for trueness of shaft. Report on this check prior to proceeding. If shaft found to be true, clean starter and rotor, vacuum impregnate insulation surfaces with an approved material and cure material. Dynamically balance complete rotating assemble. Renew bearings and reassemble motor. Bench test 1 hour under approximate rated load. Return to vessel and reinstall in correct alignment and wired as original.

See: (a) M-4E3 Memo of 16 Jan 84
(b) Voyage Repairs Request dated 1703521283

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 2,286.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Capt Date 13 Feb 84

NWMAR129945

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1H	84FEB10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$10,192.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 111-A (054), 1703-C (056), 2521-A (048), 2527-A (042), 2578-A (066)

2. The Job Order Price is increased by $10,192.00. **DUPLICATE ORIGINAL**

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	2-28-84	R. W. BEIL	05 MAR 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129946

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1H	84FEB10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$10,192.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 111-A (054), 1703-C (056), 2521-A (048), 2527-A (042), 2578-A (066)

2. The Job Order Price is increased by $10,192.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
2-28-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129947

PRICE PROPOSAL
13 ND SUPSHIP, SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001\H	Ø54

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 111-A

PCN: XXXXXXXX

PLANNER: STEPHENS

TITLE: Delivery, Care, and Redelivery of Vessel

SCOPE: Since vessel arrived 3 days early on 4 Jan 84 (vice 7 Jan 84), provide 3 days husbandry to cover this additional time.

This is in response to C.R. 112.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 7000 ⁰⁰

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Stapt Date 13 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP, SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 1H	Ø56

COAR NO: [ ]

ITEM NO: 1703 -C

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: SSTG Power and Control Cabling

SCOPE: Reduce scope by cancelling E.4(H) and insert the following additional statement:

Install three(3) G.F.E. 300AMP TB-1 Circuit Breakers in spare Breaker Slots of new Switchboard. Supply and install Feeder Cabling from main Switchboard to the G.F.E. remote controllers for the three Condensate Pumps. Locate and install, as instructed, the G.F.E. Controllers. Connect Controllers to Motors. Show this installation in as built diagrams.

See Condition Report 69.

Reason For Change: To provide necessary direction to Contractor.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3201.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Sept Date 13 Feb 84

NWMAR129949

PRICE PROPOSAL
13 ND SUPSHIP, SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001	048

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2521-A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Overhaul Starting Air Compressor (1 EA).

SCOPE: Cancel This Item In Its Entirety.

Reason: Not required at this time. Was overhauled by ships force.

☐ Above work will be completed by current Job Order completion date of 6 July 1984
☒ Above work will require Job Order completion date extension to

TOTAL PRICE $ (7887)

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 13 Feb 84

NWMAR129950

PRICE PROPOSAL
13 ND SUPSHIP, SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 1H	042

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2527 AA

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: 200 KW Emergency Diesel Generator

SCOPE: Inspect and Repair the Voltage Regulator Circuits and Diesel Governor.

This is in Response to C.R. 73.

Reason For Change: Work not covered in specification.

[XX] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3466 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 2/10/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Capt Date 8 Feb 84

NWMAR129951

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS.	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001 1H	066

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2578 -A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Tail Shaft Withdrawal, And Stern Gland Stuffing Boxes.

SCOPE: Tail Shaft, to Propeller Contact Fit.

1. Blue tail shaft and pull propeller up for contact check, a minimum of 85% surface contact, is satisfactory.

2. Machine No. 1 Shaft Key, to fit key way.

Reason For Change: Not included in original specification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 4412.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 2/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stept Date 13 Feb 84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 3

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1G	84FEB03		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$52,750.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2605 (026)

2. The Job Order Price is increased by $52,750.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

15. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	02-21-84	R. W. BEIL	27 FEB 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129953

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1G	84FEB03		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$52,750.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2605 (026)

2. The Job Order Price is increased by $52,750.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
02-21-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129954

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001	026

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2605

PCN: XXXXXXXX

PLANNER: Cronce

TITLE: 500 KW Diesel Generator

SCOPE: Perform & Survey of the 500 KW (Alternate) Diesel Generator per the Attached Specification Item 2605

This is in Response to C.R. 67, and C.R. 106.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 52,750.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 2/3/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature [signature] Date 1/20/84

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [signature] Date 6 Feb 84

Item No. 2605 Category A
500 KW DIESEL GENERATOR

A. INTENT

It is the intent of this Item that the Contractor shall survey the 500KW diesel generator and its associated system components.

B. REFERENCES

1. The following drawings are applicable in their entirety:

None.

2. The following Specification Items are applicable to this Item:

(a) 201 Regulatory Bodies, Standards and Certificates
(b) 202 Access and Maintenance Requirements
(c) 203 Materials and Workmanship
(d) 204 Structures and Foundations
(e) 205 Welding
(f) 206 Insulation and Lagging
(g) 208 Painting
(h) 212 Heating, Ventilation and Air Conditioning
(i) 213 Electrical Systems
(j) 214 Testing
(k) 215 Nameplates, Notices and Markings
(l) 216 Spare Parts
(m) 217 General Provisions for Removals
(n) 218 Design Criteria

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None

D. REMOVALS

None

E. SCOPE OF WORK

1. Arrangement/Outfitting

None

2. Structural

None

Orange

Item No. 2605 Category A
500 KW DIESEL GENERATOR

3. Mechanical/Fluid

None

4. Electrical

The Contractor shall perform the following:

(a) Initial Load Test:

Contractor shall provide labor, material, services, equipment, special tools and test instruments to monitor operating parameters and overall performance of the General Motors 500KW Emergency Diesel Generator during a test run under maximum available load for not less than two full hours. Contractor shall provide a suitable dummy load source and connect same for purposes of this test, to ensure a minimum of 500KW.

(b) Crankshaft Deflection & Wear Down:

Before the engine is disassembled and again before the engine is started on test run after overhaul, crankshaft deflection readings shall be taken and compared for record and report findings. Following removal of connecting rods in accordance with Article E sub-article 4.h. of this Item, the Contractor shall wipe off all connecting rod crankshaft journals and take micrometric measurements of same as recommended in manufacturer's technical manual. Results shall be recorded and furnished to the COMSC CONREP. Upon completion of this phase Contractor shall ensure that exposed journal surfaces are adequately protected against abrasion and corrosion pending reassembly of connecting rods.

(c) Engine Disassembly Evaluation:

The Contractor shall disassemble the engine as required to evaluate all wear on each part of the engine and drain the lubrication, air, fuel and fresh water systems.

(d) Fuel System:

(1) Disconnect and remove from the Engine the fuel filters, and the booster pump, the fuel by-pass valve, air vent and bleeder valves, pressure gauges, and all fuel injector lines and flexible hoses. The fuel injectors and the fuel pump shall be removed and delivered to an authorized agency for overhaul as specified by the manufacturer. All expendable fuel filter elements shall be replaced using Contractor furnished material.

Item No. 2605 Category A
500 KW DIESEL GENERATOR

(2) All assemblies shall be cleaned and examined in the Contractor's shop. All internal parts found worn or defective shall be listed and the list delivered to the COMSC CONREP. When directed, assemble all parts and leave ready for installation in the Engine.

(3) All fuel injectors shall be adjusted and timed for proper operation, after reinstallation. All fuel lines shall be blown out with compressed air and proven clear. All flexible hoses shall be replaced with new.

(e) Lubrication System:

(1) The entire lubrication system shall be cleaned and examined. The following parts shall be disconnected from the engine and disassembled for cleaning, inspection and repairs.

- Lubricating oil and scavenging pumps.
- Controlled inlet pressure regulating valve.
- Oil filter assembly.
- Oil manifolds.
- Oil pressure shut-off assembly.
- Overspeed shut-off assembly.
- Oil cooler by-pass valve.
- Oil filter by-pass valve.
- Hand sump pump.
- Pressure relief valve.

(2) The Contractor shall list all parts found worn or defective and bring to the attention of the COMSC CONREP, chemically clean and pressure test the lubricating oil cooler, plug off leaking tubes, renew zinc pencils, blow out all oil lines and passages and prove clear, and renew all flexible hoses. All new Contractor furnished flexible hoses, if non-metallic shall conform with USCG 56.60-25C. The Contractor shall clean and examine oil pan and suction screens, dye check teeth and adjust backlash on lube oil pump gear and when directed by COMSC CONREP, assemble all units and leave ready for installation in the engine. The Contractor shall adjust all pressure and temperature regulators on test run. All expendable lube oil filter elements shall be replaced using Contractor furnished material.

SHIP USNS OBSERVATION ISLAND (T-AGM-23) | JOB ORDER NO N-00033-84-JO-001 | SERIAL NO 026

Item No. 2605
500 KW

Category A
DIESEL GENERATOR

(f) Cooling System:

(1) The Contractor shall disconnect and remove the fresh and salt water pumps, temperature regulator, expansion tank and heat exchanger, disassemble all parts for cleaning and inspection and list all worn or defective parts.

(2) The Contractor shall clean out all loose scale and sediment from water passages in the engine block, blank off all openings and chemically clean all water passages and liners to remove hard scale, neutralize and flush with fresh water and renew all zinc plugs in system. Manufacturer's instructions shall be carefully followed when removing scale.

(g) Cylinder Heads:

(1) All cylinder heads shall be disconnected and removed from the engine. All cylinder liners shall be micrometrically measured athwartships and fore-and-aft, at three levels of the stroke, starting at (1) inch below cylinder head level. Contractor shall record all readings and provide three copies of same to COMSC CONREP.

(2) Cylinder heads shall be cleaned externally and all water passages flushed with an approved de-scaling solution. Cylinder heads shall not be individually disassembled unless specifically authorized by the COMSC CONREP.

(h) Pistons and Connecting Rods:

(1) The Contractor shall release all connecting rods from the crankshaft and remove pistons and connecting rod asseemblies from the cylinder block, disassemble and thoroughly clean piston rings, piston pins, and snap rings, connecting rods, wrist pin bushings and connecting rod bearings and take micrometer measurements of all parts in locations recommended in manufacturer's instruction book.

(2) All parts found defective or worn beyond recommended limits shall be listed and brought to the attention of the COMSC CONREP. Replacement of parts, if required, shall be at the direction of COMSC CONREP.

(i) Front and Rear Accessory Drives:

The Contractor shall remove interferences to disconnect and remove front drive housing from the engine block for examination of all gears, bearings, drive shafts and listing all parts found worn or defective. The Contractor shall blow out and prove clear all lubricating oil lines, renew all seals and gaskets and when directed, assemble and adjust all clearances, end play and gear backlash in accordance with manufacturer's specifications.

Item No. 2605 Category A
500 KW DIESEL GENERATOR

(j) Flywheel And Flywheel Housing:

The Contractor shall disconnect and remove the upper flywheel housing using approved lifting brackets thoroughly clean and examine all parts, oil slinger and seal elastic coupling spring packs, flywheel ring gear and fasteners, replace any spring pack assembly found to be defective and check flywheel face runout per manufacturer's instruction manual.

(k) Minor Assemblies:

All minor assemblies not detailed in this item such are as follows:

- Electric Starting Mechanism.
- Priming Pumps.
- Overspeed Trip Mechanism.
- Low Lube Oil Pressure Mechanism.
- Alarm Panel.
- Exhaust Pyrometer (indicator & thermocouples).
- Gauges and Instruments.
- Governor Assembly

The Contractor shall disassemble, clean and inspect these minor assemblies listed above. All parts found defective or worn beyond the manufacturer's prescribed limits shall be listed and brought to the attention of the COMSC CONREP and when so directed, each unit shall be correctly assembled and stored in a clean, dry location until time to install in the engine. All gauges, instruments, thermocouples and indicators shall be calibrated or replaced with new if beyond calibration.

(l) Reassembly:

(1) The Contractor shall reassemble the engine and renew all fluids and air.

(2) Before final assembly of major components, the COMSC CONREP shall be allowed to examine the individual parts.

(3) Upon assembly of the engine, the Contractor shall prepare a report showing final clearances for inclusion in the ship's engine.

Item No. 2605 Category A
500 KW DIESEL GENERATOR

(4) The Contractor shall furnish all parts identified in "as found" reports as requiring new parts in this Item, only after prior approval by the COMSC CONREP. After purchase of the parts, the Contractor shall furnish the COMSC CONREP with an itemized list supported by Vendor's invoice of the parts, together with the Vendor's price for each item. The Contractor's bid shall include the amount of $1000 toward the cost of such parts. If the actual new part requirements result in a total cost which the COMSC CONREP finds acceptable, a change will be issued reflecting a charge or credit to the Government based upon the difference between the above stated amount and the total Vendor's price of parts, plus profit. Parts removed shall be returned to the Government if directed by the COMSC CONREP, and a listing of such parts shall be provided and shall coincide with the Vendor's invoice of such parts. Specifically designated new parts or components specified elsewhere in this Item are not deductible from the cash amount stated in this Paragraph.

(m) Engine Run-In Procedures:

(1) Upon completion of the foregoing, the Contractor shall follow procedures for starting as outlined under paragraph "Preparation for Starting" in the manufacturer's Operation and Maintenance Manual.

(2) The Contractor shall make preliminary adjustment of valve clearances and recheck after the engine has been run and is up to running heat. Run the engine under no load until all pressures and temperatures fall with normal range as specified in instruction manual.

(3) The Contractor shall check and adjust all safety devices and controls such as overspeed trip, low-lubrication oil pressure trip, high temperature alarms air cut-off etc., to the satisfaction of the ABS, USCG and COMSC CONREP.

(4) The Contractor shall check out and correct all water, lube oil, fuel and air leaks which may develop during test runs and investigate and correct all abnormal conditions.

(5) When directed by the COMSC CONREP the Contractor shall prove engine satisfactory under a four hour full operational test of the engine.

(n) Generator:

(1) After ensuring the main breaker on unit switchboard is in open position, properly tagged out and that generator is electrically isolated for safety, the Contractor shall open, inspection covers on generator and exciter. Lift all brushes clear of slip rings and commutators and temporarily secure in the raised position. The Contractor shall complete an insulation resistance condition report showing megohms, ambient dry bulb temperature and ambient wet bulb temperature, before cleaning and take and record megger readings on all stator windings and armature windings.

Item No. 2605
500 KW

Category A
DIESEL GENERATOR

(2) After ensuring the compartment is adequately vented or provide and install a temporary exhaust blower fan adjacent to generator and exhausting to topside atmosphere the Contractor shall, with exhaust fan in operation, accomplish in-place cleaning of stator coils, armature windings, brush rigging, commutator, slip rings, air gap annodes, end bell housing and the Switchboard interiors using a U.S.C.G. approved solvent spray. Contractor shall ensure that no solvent is allowed to drain in the bilges, and all used solvent shall be carefully contained and and safely disposed.

(3) The Contractor shall dry out stator coils and armature wingings using heat lamps or forced circulation. warm dry air for at least four hours. The Contractor shall monitor the drying process. measure and record the ambient temperature at 30 minute intervals. Upon completion of drying process. take and record megger readings as described in Article E. sub-article 4.h.1 of this Specification Item.

(4) The Contractor shall inspect all brushes. pigtails. springs. brush rigging, slip rings, commutators, visible insulation and connections for physical condition, deterioration, looseness or wear. restore to manufacturer's specifications and provide written report of same to COMSC CONREP.

(5) Upon completion of ABS inspection and with the approval of COMSC CONREP, the Contractor shall reassemble generator and exciter, replace inspection covers, ensure unit is ready for operational test. clean up area of any industrial debris and restore all disturbed surfaces to original condition.

F. INTERFACES

NONE.

G. PAINTING

The Contractor shall repaint all areas disturbed in accordance with Reference B.2.g..

H. MARKING/LABELING

The Contractor shall provide the appropriate label plates and markings in accordance with Reference B.2.k..

I. TESTING

The Contractor shall conduct all testing in accordance with Reference B.2.j..

J. MANUFACTURER'S REPRESENTATIVE

NONE.

SHIP	JOB ORDER NO	SERIAL NO
USNS OBSERVATION ISLAND (T-AGM-23)	N-00033-84-JO-001	026

Item No. 2605 Category A

500 KW DIESEL GENERATOR

K. DOCUMENTATION

Upon completion of the load test in this Item, Article E, sub-article 4.a. The Contractor shall provide the COMSC CONREP and Chief Engineer with a completed operating log, recording four consecutive entries taken at 30 minute intervals. Prior to shutting down the engine, cylinder compression (without fuel) and firing (with fuel) pressures shall be recorded, not less than three readings of each per cylinder while under load. Contractor shall enter in the remarks section of the log sheet the average value of each three readings including, the corresponding exhaust temperature at the time firing pressures were measured.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1F	84FEB03		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,900.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1702-C (030), 2555-A (052)

DUPLICATE ORIGINAL

2. The Job Order Price is increased by $9,900.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	02-21-84	R. W. BEIL	27 FEB 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129964

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1F	84FEB03		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,900.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1702-C (030), 2555-A (052)

2. The Job Order Price is increased by $9,900.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	02-21-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129965

PRICE PROPOSAL
13 NB SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 \F	030

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1702 -C

PCN: XXXXXXXX

PLANNER: Diel

TITLE: Adapt Bus Connection Strips in New Switchboard.

SCOPE: Add the Following Statement to Item 1702-D2.

Mark the switchboard bus connection strips to match lengths and bolt hole locations in existing TB-1 and TB-4 circuit breaker mounting blocks.

Remove the marked strips, cut to length, and punch holes out.

Reinstall strips. (Mounting blocks and breakers to be installed per 1702 E.b.2.
Deal with 74 circuit breaker mounting blocks (3 connections per block)
Supply and Install in the New Switchboard, the following:
3 Ea. TB-1 CKT. BRKR. Mounting Blocks
20 Ea. TB-4 CKT. BRKR. Mounting Blocks

Re-CR 52 and C.R. 87

Reason for Change: Work not called out in specifications.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 11,900 –

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) Date 2/3/84

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 6 Feb 84

NWMAR129966

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 \F	052

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2555-A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Annual Inspection Of Lifeboats.

SCOPE: Delete Para 3;4;5 in their entirety and use the following Para's for guidance. See Page 2

Reason: The original specification was written for an open type life boat.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ <2000 =>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 2/3/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C00075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 6 Feb 84

NWMAR129967

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 1F	052

3. Remove all portable gear and equipment. Life preservers, sea anchor, heaving line, lantern, distress signals, and similar articles shall be covered and protected against the weather while removed from the boat.

   (a) Fuel tank shall be removed and thoroughly cleaned of all fuel, water, and sediment.
   (b) Work on equipment removed from the boats shall be accomplished off the ship.

4. Clean, Free-Up, lubricate and test all moving parts including the interlocking device, the hand propelling gear, the releasing gear and the bilge pump.

   (a) Remove the access covers on all equipment tanks and clean and chase all threads on access cover studs.

5. Thoroughly clean all interior surfaces of the boat with an approved detergent and wash down fiberglass seats built into the hull with fresh water.

6. Inspect exterior fiberglass surfaces for cracks, fractures in presents of the USCG, ABS and MSC CONREP inspectors.

   (a) Clean exterior surface as described in Para 5.
   (b) Repairs under this Item, will be in accordance with regulatory bodies.
   (c) Exterior of boat to be painted/recoated by Contractor using appropriate paint and/or Gel-Coat, etc.
   (d) All painted equipment shall be repainted. Restencil all lettering in the boats and their equipment in accordance with USCG requirements releasing gear lever shall be painted bright red with one(1) inch white bands of luminous tape near each end. The raised letters on the lever shall be painted white.

7. When all paint is thoroughly dry all equipment removed from the boats by the Contractor shall be replaced and neatly restowed in the boats in their respective original locations. Any missing or defective securing devices, including tacks, straps, flat headed non-corrosive screws for straps, shall be replaced as original when new .

   (a) Upon completion of reinstallation of all equipment, touch-up scratched and marked-up paint work with international orange colored paint.
   (b) Furnish fuel for boat engine and fill fuel tank to capacity. (artic grade)
   (c) Boats shall be returned to ship and restowed in good order.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1E	84FEB02		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____,
DATED _____ (See block 9)
[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$17,661.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 502A (021), 1103A (037), 1203A (028), 1207A (027), 1703B (022), 1704B (035), 2515A (033), 2517A (046)

2. The Job Order Price is increased by $17,661.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	02-21-84	R. W. BEIL	27 FEB 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129969

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1E	84FEB02		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____,
DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$17,661.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 502A (021), 1103A (037), 1203A (028), 1207A (027), 1703B (022), 1704B (035), 2515A (033), 2517A (046)

2. The Job Order Price is increased by $17,661.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
02-21-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129970

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001 1E	Ø21

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 502 -A

PCN: XXXX

PLANNER: Madden

TITLE: Power System - Main Switchboard Feeders

SCOPE: Delete paragraph E.4.(a) and insert new paragraph to read:

"(a) Modify the two existing main switchboard circuit breakers (ITE-K800-NO.4 and 5) in one free-standing switchgear cubicle, that shall temporarily be removed for relocation, by removing the bus and barrier plates. The relay and control section of the switchgear shall be modified by adding an additional 100 VA 480/120 VAC Transform, 100VA 120/24VAC transformer and required fuses for independent power and control operation for each circuit breaker. The contractor shall update reference B.1.(a) to show as built installation of circuit breakers.

The Contractor shall prepare a drawing showing the switchgear modifications and shall include the existing lockout relay hook-up at the remote panel."

Reason for Change: Specification error.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3087.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 1 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date	SUPERVISOR SHIP SURVEYOR Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Stephen Date 2 Feb 1984

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	037

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1103-A

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: IC/ELECTRICAL SYSTEMS

SCOPE: On working drawing T-AGM-23-432-5985278 Sheet 2 of 2

Zone 12C change the cable designation to read C-J28 (TTOP-15)(80'), (vice circuit C-J28(80). This change will increase the size of the cable penetrating the deck and bulkheads from 0.33" to 0.83".

Reason For Change:

Sponsor forecasts a future need for increased telephone service in the conference room area.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 817.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/2/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature Salix Stef Date 3 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 E	028

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1203-A

PCN: XXXXXXX

PLANNER: Craig

TITLE: Oakite Equipment Installations

SCOPE: Reduce the scope of work as revised in specification attached as pages 2 and 3.

Reason for Change: Specification Error

☒ Above work will be completed by current Job Order completion date of 6 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ <400>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 1 Feb 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 2 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	027

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1207-A

PCN: XXXXXXXX

PLANNER: Craig

TITLE: Communications Control Center Modification

SCOPE: Reduce the scope of work by deleting the unnumbered second paragraph on page 1207-2 that begins, "Install a vent.....".

Reason for Change: This work has already been performed.

☒ Above work will be completed by current Job Order completion date of 6 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ <1347 =>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent
Signature

Date 1 FEB 84 ~~<1347 =>~~ DEN

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens

Date 2 Feb 84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-001	022

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1703 -3

PCN: XXXXXXXX

PLANNER: Diel

TITLE: SSTG Power and Control Cabling

SCOPE: Reduce Scope by deleting papa E.4.j. on page 1703-4 and inserting:

Install one(1) GFE temperature monitoring panel in the E.O.S. and connect to each SSTG connector box. Power shall be taken from local emergency power source.

Note: This cabling not shown on reference B.1.b

This is in response to CR 42.

Reason For Change: 3 panels are not required to monitor all necessary turbine thermocouples.

[X] Above work will be completed by current Job Order completion date of July 6, 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <1360.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 1 FEB 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 2 Feb 84

NWMAR129975

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-001	035

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1704-8

PCN: XXXXXX

PLANNER: Diel

TITLE: Calibrate Meters

SCOPE: Add the Following as Item 1704 (e) (1) and (2)

(1) Emergency and alternate switchboards.
Remove the following meters, place in hands of a qualified facility, as shown below, calibrate, tag, and reinstall in good order.

Emergency	Alternate
	1 - Tachometer
1 - Voltmeter	1 - Voltmeter
1 - Ampmeter	1 - Ampmeter
1 - KW meter	1 - KW meter
1 - Frequency meter	1 - Frequency meter
3 - Voltage relays	3 - Voltage relays
	1 - Stnchroscope
	1 - Diesel Engine Temperature Detector meter
	1 - Generator winding temperature detector meter

(2) Provide and install a clear plastic replacement covers similar to existing damaged covers of six(6) voltage relay units.
(3) Place four(4) power factor meters removed on Item 1702.2.(c) in hands of a qualified facility, calibrate, tag, and re-install per specifications.

"This is in response to C.R. 78"

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3650.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) Date 2/2/84

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Stgt Date 3 Feb 84

NWMAR129976

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP / USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-001 \ 8	033

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2515-A

PCN: XXXXXXXX

PLANNER: Cronce

TITLE: Sea Water Circulating Pumps.

SCOPE: Fabricate Foundation of Sea Water Circulating Pumps per Sketch on C.R. 80. Remove Old Foundation and Scrap Install New.

This is in Response to C.R. 80.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 8074.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 2/2/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature Alex Stephen Date 3 Feb 84

NWMAR129977

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-001 \E	046

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2517-A

PCN: XXXXXXXX

PLANNER: CRONCB

TITLE: OVERHAUL BILGE AND BALLAST PUMPS NO. 1 and 2

SCOPE: Fabricate Pump Foundations as per sketch on C.R. 99

This is in response to C.R. 99

Reason For Change: Work not covered in specification.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 5200.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 9/2/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Slep Date 3 Feb 84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1D	84FEB02		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

- Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$580.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2604 (025)
2. The Job Order Price is increased by $580.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
02-21-84

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
27 FEB 1984

NWMAR129979

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1D	84FEB02		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$580.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2604 (025)
2. The Job Order Price is increased by $580.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	02-21-84		

NWMAR129980

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 (D)	025

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2604 NEW

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Open, Examine, and Report on Condition of One(1) Temperature Monitoring Panel.

SCOPE: A. INTENT

The intent of this Item is to have the Contractor supply all labor, materials, and services to open, inspect, and report on the condition of one(1) SSTG temperature monitoring panel.

B. REFERENCES

1. The following manual is applicable:
   (a) Technical Manual Supplied to Contractor by CONREP. NAVSHIPS 365-2601
2. The following Specification Items are applicable to this Item:
   (a) 201 Regulatory Bodies, Standards and Certificates
   (b) 202 Access and Maintenance Requirements
   (c) 203 Materials and Workmanship
   (d) 204 Structure and Foundations
   (e) 208 Painting
   (f) 214 Testing
   (g) 215 Nameplates, Notices and Markings

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 580 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 1 Feb 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 2 Feb 84

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0011	025

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

One (1) Temperature Monitoring Panel (Used Condition)

D. REMOVALS

None

E. SCOPE OF WORK

1. Open panel and dismantle sufficiently to make a complete inspection in company with CONREP. Supply a written report of findings to CONREP.

Further work found to be required will be the subject of a subsequent item.

2Feb84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1C	84JAN20		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____,
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10 A. Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	($52,555.00)

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 110A (020), 802A (018)

2. The Job Order Price is decreased by $52,555.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	2-3-84	R. W. BEIL	08 FEB 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129983

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 1C
2. EFFECTIVE DATE 84JAN20
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	($52,555.00)

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 110A (020), 802A (018)

2. The Job Order Price is decreased by $52,555.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
2-3-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129984

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001C	018

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 802 A

PCN: XXXXXX

PLANNER: Sanborn

TITLE: Forward Mast Fabrication and Installation

SCOPE: Reduce the scope of work on Page 802-2 paragraph D.1. from removing the existing forward mast complete to removal of the forward mast flush with the focsle deck, inserting the deck and leaving remaining portion of the existing forward mast between the focsle deck head and main deck.

This is in responce to CR 32

Reason for Change: Contractor's request for deviation.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $<2855.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 20 Jan 84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 20 JAN 84

NWMAR129985

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 VC	020

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 110 A

PCN: XXXXXXX

PLANNER: Stephens

TITLE: GFM/GFE Delivery

SCOPE: Reduce Scope of Work

On page 12, Para 5 (a) of Contract, delete the requirement for Contractor to accept delivery of GFM/GFE at Oakland, Ca. The Government has elected to ship all GFM/GFE direct to NMIN.

☒ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ <49,700.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 20 Jan '84 (Date)

CONTRACTOR

CONTRACT NO. ~~N00033-70-C-0075~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 20 JAN 84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1B	84JAN20		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____,
DATED _____ (See block 9)
[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$739.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1208A (019), 1702A (012), 1703A (006), 1706A (010), 1803B (007), 1803C (008)

2. The Job Order Price is increased by $739.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	2-3-84	R. W. BEIL	08 FEB 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129987

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO. 1B	2. EFFECTIVE DATE 84JAN20	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
5. ISSUED BY CODE SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN, Seattle, Washington 98115		6. ADMINISTERED BY (If other than block 5) CODE	

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$739.00

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It modifies the above numbered contract as set forth in block 12.

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2. The Job Order Price is increased by $739.00.

3. The Completion Date of the T-AGM-23 is unchanged.

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14. NAME OF CONTRACTOR/OFFEROR BY Donald E. Nugent (Signature of person authorized to sign)		17. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	
15. NAME AND TITLE OF SIGNER (Type or print) Donald E. Nugent Project Manager	16. DATE SIGNED 2-3-84	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129988

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS Observation Island	N00033-84-J0-001 1B	008

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1803 C

PCN:

PLANNER: Craig

TITLE: 04/05 Level Support Systems for X-Band

SCOPE: Para E.3.1(e), page 1803-11

Wallace and Tiernan flow meter should be model 5310-B-1-2-3-12-A-X-I (Vice Model 5310 - B-1-2-3-08-x-x-I)

This is in response to CR #15

Reason for change: Specification error

☐ Above work will be completed by current Job Order completion date of 6 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 1588.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 20 Jan 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 20 JAN 84

NWMAR129989

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-JO-001 13	007

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1803 B

PCN:

PLANNER: Sanborn

TITLE: 04/05 Level Support Systems for X-Band

SCOPE: Piece 16 should be Part # 800T-1TKG which includes switch and enclosure (vice 800T-DGB which was for switch only).

This is in responce to CR #12

Reason for change: Drawing error.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 633.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 20 Jan 84 (Date)

CONTRACTOR CONTRACT NO.

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Wix Stephen Date 20 JAN 84

NWMAR129990

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001 B	010

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 1706 A

PCN:

PLANNER: Sanborn

TITLE: Current Limiting Fuses and Reactors

SCOPE: Table 1706-1 on Page 1706-3 change to read General Electric 259L721 or equal (Vice General Electric 259L722) for circuits L104/LP 02-110-1,L105/LP 2-82-2 and L107/LP 2-168-2 current limiting reactors.

This is in response to CR #10.

Reason for change: Specification Error.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 624.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) Date 20 Jan 84

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 20 JAN 84

NWMAR129991

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001 B	006

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1703 A

PCN:

PLANNER: Sanborn

TITLE: SSTG Power and Control Cabling

SCOPE:

1. Page 1703-3, paragraph D.4.
Change paragraph D.4. to read; "4. Ripout all cubling from group control centers to the auxiliary circulating pump, circuits and auxiliary condensate pump, circuits 3P2, 5P2, 6P2, 7P2, 5P7, 6P7, 7P7 and 8P7 shown on Reference B.1.a.

2. Page 1703-4, paragraph E.4.h.
Change paragraph E.4.(h) to read; "(h) Replace the existing 100 Amp breakers with 30 Amp breakers for circuits 6P7, 8P7 and 7P2.

Reason for Change: Condition Report 20 and Specification Correction.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ -0-

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 20 Jan 84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dir Stephen Date 20 JAN 84

NWMAR129992

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 13	012

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1702 A

PCN: XXXXXX

PLANNER: Sanborn

TITLE: Ship Service Switchboard Removal and Reinstallation.

SCOPE: 1. Page 1702-2, paragraph C.

A. Change to read "Ship Service Switchboard (Shipped in 7 Sections)" (Vice "Ship Service Switchboard Shipped in 5 Sections)"

B. Delete "(1) Unit Ship Service board Center "A" & "B" (1 Section). This unit incorporated in new Ship Service Switchboard.

C. Delete "(1) Unit Mission Load Center (1 Section)". This unit incorporated in new Ship Service Switchboard.

D. Delete "(1) Unit 117 Volt lighting Load Center (1 Section)". This unit incorporated in new Ship Service Switchboard.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <506.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) Date 20 Jan 84

CONTRACTOR CONTRACT NO.

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dwig Stephen Date 20 JAN 84

NWMAR129993

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	E00033-84-J0-001 13	019

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1208 A

PCN: XXXXXXX

PLANNER: Craig

TITLE: Doppler Speed Log Gate Valve Installation

SCOPE: Reduce Scope: Paragraph E.2 page 102 should be changed to read "Contractor shall install a new padeye directly above the trunk platform on the first platform." (Vice installing a new 24" X 36" hinged watertight hatch)

This is in response to CR #37

Reason for change: Trunk is already watertight with existing bolted plate manhole at first platform.

[XX] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <1600.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) Date 20 Jan 84

CONTRACTOR CONTRACT NO.

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Duy Stephens Date 20 JAN 84

NWMAR129994

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
1A	83DEC13		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____, DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001 DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$178,200.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802 (014), 1803 (015), 1804 (016), 1805 (017), 2602 (002), 2603 (003).

2. The Job Order Price is increased by $178,200. **DUPLICATE ORIGINAL**

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY William J. McCauley
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
William J. McCauley
Mgr of Engineering & Estimating

16. DATE SIGNED
1-31-84

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
02 FEB 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129995

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 1A
2. EFFECTIVE DATE 83DEC13
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE
SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE
(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS
[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.
Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:
(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$178,200.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS
(a) [ ] This Change Order is issued pursuant to _____
The Changes set forth in block 12 are made to the above numbered contract/order.
(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.
(c) [X] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause
It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802 (014), 1803 (015), 1804 (016), 1805 (017), 2602 (002), 2603 (003).

2. The Job Order Price is increased by $178,200.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [X] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY _____ (Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____ (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
William J. McCauley
Mngr of Engineering & Estimating

16. DATE SIGNED 1-31-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR129996

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-001 1A	014

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1802

PCN: XXXXXXX

PLANNER: Madden

TITLE: Structural Modifications For X-Band Installation

SCOPE: Change The Following under Para B.1 Drawings:

B.1.(b) T-AGM-23-800-4840604 Rev L (Vise Rev K)
B.1.(c) T-AGM-23-800-4840605 Rev L (Vise Rev J)
B.1.(d) T-AGM-23-800-4840607 Rev L (Vise Rev K)
B.1.(e) T-AGM-23-513-4840608 Rev L (Vise Rev K)
B.1.(h) T-AGM-23-500-4840621 Rev L (Vise Rev K)
B.1.(i) T-AGM-23-401-4840650 Rev L (Vise Rev K)
B.1.(j) T-AGM-23-510-4840616 Rev L (Vise Rev K)
B.1.(k) T-AGM-23-800-4840606 Rev L (Vise Rev K)

☒ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 3479.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 15 Dec 83 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED, AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dir Slyster Date 15 Dec 83

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001 1A	015

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1803

PCN: XXXXXXXX

PLANNER: Madden

TITLE: 04/05 Level Support System for X-Band

SCOPE: 1. Change the following pg. 1803-1 Para B.1. Drawings

B.1.(a) T-AGM-23-514-4840610 Rev K to Rev L
B.1.(c) T-AGM-23-180-4840614 Rev L (Vise Rev K)
B.1.(d) T-AGM-23-520-4840618 Rev L (Vise Rev K)
B.1.(e) T-AGM-23-524-4840619 Rev L (Vise Rev K)
B.1.(f) T-AGM-23-524-4840620 Rev L (Vise Rev K)
B.1.(j) T-AGM-23-552-4840625 Rev L (Vise Rev K)
B.1.(l) T-AGM-23-407-4840637 Rev L (Vise Rev K)
B.1.(m) T-AGM-23-331-4840639 Rev L (Vise Rev K)
B.1.(n) T-AGM-23-320-4840641 Rev L (Vise Rev K)
B.1.(r) T-AGM-23-321-4840648 Rev L (Vise Rev K)
B.1.(s) T-AGM-23-404-4840649 Rev L (Vise Rev K)
B.1.(t) T-AGM-23-401-4840650 Rev L (Vise Rev K)
B.1.(u) T-AGM-23-532-4840617 Rev L (Vise Rev K)
B.1.(v) T-AGM-23-510-4840616 Rev L (Vise Rev K)
B.1.(w) T-AGM-23-320-4840642 Rev L (Vise Rev K)

2. Change the following: pg 1803-5 Para C. GFE

C.(jj) Crygenic Cooling Unit (Quantity(2

3. Change the following: pg 1803-10 Para E.3.1(a) ln3 ...continued

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 4103.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 15 Dec 83 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Stephen Date 15 Dec 83

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 1A	015

Delete " 200 GPM capacity at 300 ft. total dynamic head..."
and add "165 GPM capacity at 330 ft. total dynamic head..."

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001 /A	016

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1804

PCN: XXXXXXXX

PLANNER: Madden

TITLE: Second Deck Support System For X-Band

SCOPE: Change The Following: Page 1804-1 Para B.1 Drawings

B.1.(b) T-AGM-23-180-4840615 Rev L (Vise Rev K)
B.1.(c) T-AGM-23-401-4840650 Rev L (Vise Rev K)
B.1.(d) T-AGM-23-331-4840639 Rev L (Vise Rev K)
B.1.(e) T-AGM-23-320-4840641 Rev L (Vise Rev K)
B.1.(f) T-AGM-23-320-4840642 Rev L (Vise Rev K)
B.1.(g) T-AGM-23-432-4840646 Rev L (Vise Rev K)

[x] Above work will be completed by current Job Order completion date of 06 July, 1983
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 981.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 15 DEC 83 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature S. Dix Stephen Date 15 Dec 83

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001/A	017

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1805

PCN: XXXXXXXX

PLANNER: Madden

TITLE: Miscellaneous X-Band

SCOPE: Change the following: Page 1805-1 Para B.1 Drawings

B.1. (a) T-AGM-23-446-4840638 Rev L (Vise Rev K)
B.1. (b) T-AGM-23-450-4840643 Rev L (Vise Rev K)
B.1. (c) T-AGM-23-401-4840650 Rev L (Vise Rev K)

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 358.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 15 DEC 83 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dig Sept Date 15 Dec 83

NWMAR130001

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001 1A	002

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2602

PCN: XXXXXX

PLANNER: Sanborn

TITLE: No. 2 Dumbwaiter Extension

SCOPE: See Attached Specification Package (7 pages) and Drawings.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 93,250.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 15 DEC 83 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 15 Dec 83

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-JO-001 /A	003

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2603

PCN: XXXXXX

PLANNER: Sanborn

TITLE: Frame 160 Watertight Door

SCOPE: See Attached Specification Package (5 pages) and drawings.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 71,629.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 15 DEC 83 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature Date 15 Dec 83

NWMAR130003

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE [redacted] | PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 2Z | 3. EFFECTIVE DATE 84MAY11 | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE | FACILITY CODE

(V) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-C-J0-001

10B. DATED (SEE ITEM 13) 83OCT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $13,497.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V)
A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. 2304 (a) (1b)

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2634 (153), 2636 (165), 2639 (192)
2. The Job Order Price is increased by $13,497.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

15B. CONTRACTOR/OFFEROR
Donald E. Nugent
(Signature of person authorized to sign)

15C. DATE SIGNED 06/07/84

16B. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

16C. DATE SIGNED 11 JUN 1984

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130004

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
2Z	84MAY11		

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and
Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE FACILITY CODE

(/)	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
XX	10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-C-J0-001
	10B. DATED (SEE ITEM 13) 83OCT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $13,497.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(/)	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
XX	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. 2304 (a) (1b)
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2634 (153), 2636 (165), 2639 (192)
2. The Job Order Price is increased by $13,497.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Donald E. Nugent Project Manager			
15B. CONTRACTOR/OFFEROR Donald E. Nugent (Signature of person authorized to sign)	15C. DATE SIGNED 06/07/84	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130005

PRICE PROPOSAL
12ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 07	172

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2639 New

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: X-Band Foundation Drilling.

SCOPE: The contractor shall provide all labor and material to drill X-Band equipment foundation in accordance with the following:

INSTRUCTIONS FOR USE OF DRILLING TEMPLATES

1. For equipment location refer to X-Band arrangement drawing T-AGM-23-401-4840650.

2. Drilling templates are the same size as the equipment foundations.* For orientation align the edges of the templates with the edge of the foundation. For deck mounted units, the equipment name is marked on the rear of the template. For bulkhead mounted units, the name is marked on the top of the template.

3. The sheet metal templates have a 1/8" diameter pilot hole at the drilling location.

4. Eleven (11) templates are to be furnished. Scheduled shipment date from the East Coast is 15 May 1984.

5. The attached listing details the work to be performed.

* See note marked # in list of drilling templates. See attached sheet.
Reason For Change: Sponsor Request

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 3575 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/25/84 (Date)

CONTRACTOR

CONTRACT NO. ~~N00033-70-C-0075~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/25/84

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	165

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2636 New

PCN: XXXXXXXX

PLANNER: LEMOS

TITLE: SUS Charge Storage Box

SCOPE: Increase scope of work by accomplishing attached 3 page specification.

Reason For Change: Sponsor Requirement

[XX] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 8968 =

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stop Date 5/25/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	153

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 2634 New

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: Otis Elevator Survey

SCOPE: Provide the services of a qualified Otis Elevator Co. representative to survey the elevator's (located at 1-89-1-T) electrical and mechanical systems to ascertain what repairs are necessary to place the elevator in fully operational condition. Submit three copies of As Found Report and price information for repairs to the CONREP.

Proceed with survey on a not to exceed price of $2,000.00 for the survey.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 954 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Best Date 5/25/84

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE | PAGE 1 OF PAGES

2. AMENDMENT/MODIFICATION NO. 2Y

3. EFFECTIVE DATE 84MAY29

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE FACILITY CODE

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO. XX N00033-84-C-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $12,548.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

✓ A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 807A (194), 2103A (151), 2523A (196), 2553A (190)
2. The Job Order Price is increased by $12,548.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

15B. CONTRACTOR/OFFEROR
Donald E. Nugent
(Signature of person authorized to sign)

15C. DATE SIGNED 06/07/84

16B. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

16C. DATE SIGNED 11 JUN 1984

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130009

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE | PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO.: 2Y
3. EFFECTIVE DATE: 84MAY29
4. REQUISITION/PURCHASE REQ. NO.:
5. PROJECT NO. (If applicable):

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and
Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE | FACILITY CODE

(V) 9A. AMENDMENT OF SOLICITATION NO.:

9B. DATED (SEE ITEM 11):

XX 10A. MODIFICATION OF CONTRACT/ORDER NO.: N00033-84-C-J0-001

10B. DATED (SEE ITEM 13): 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $12,548.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 807A (194), 2103A (151), 2523A (196), 2553A (190)
2. The Job Order Price is increased by $12,548.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR
Donald E. Nugent
(Signature of person authorized to sign)

15C. DATE SIGNED: 06/07/84

16B. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

16C. DATE SIGNED

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130010

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP: USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	190

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2553 A

PCN: XXXXXXX

PLANNER: CRONCE

TITLE: Fixed CO^2 Extinguisher Systems.

SCOPE: Increase scope by adding compartment 01-79-0-K to para A. of basic specification.

Reason For Change: C.R. 554

XX Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 758 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stoft Date 5/25/84

NWMAR130011

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012Y	176

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2523 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Overhaul Lube Oil Purifier

SCOPE: Repair Motor Controller

1. Install new time delay (90 to 120 Sec) in motor controller of lube oil purifier.

2. Operationally check after installation.

In Response to CR 580.

Reason For Change: Not covered in specifications

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1387.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Date 5/25/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	151

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 2103 (A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Accomodation Electrical Systems

SCOPE: Add the following to 2103 E.A.C.:

Release the cables (2) supplying;
a) the KW meters
b) the tachometer

Presently located in 02-106-8-L and rerun cables to the new Chief engineer's quarters (02-110-1-L). Temporarily remove the KW meter enclosure and reinstall in 02-110-1-L. Remove the tachometer and reinstall in 02-110-1-L. Prior to installation of KW meters transport to shop, re-calibrate to register higher range, return to vessel. Relabel meter read out #4 to read "spare".

Reason for Change: Not covered in original specifications.

RE: CR 440

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 2303-

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 5/25/84

NWMAR130013

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGN 23	N00033-84-J0-0012	174

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 807 A

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: Miscellaneous Antenna and Equipment Relocation.

SCOPE: Provide and install a total of 770 feet of RG-214 coaxial cable for the following muldipole antennas circuits R-RAW4C36(2) 150 feet, R-RAW4C38(1) - 140 feet, R-RAW4C38(2)-140 feet, R-RAW4C29(1)-170 feet and R-RAW4C29(2)-170 feet.

In Response to CR's 531 and 536

☒ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 8100 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. ~~N00033-70-C-0075~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 5/25/84

NWMAR130014

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE | PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO.: 2X
3. EFFECTIVE DATE: 84MAY29
4. REQUISITION/PURCHASE REQ. NO.:
5. PROJECT NO. (If applicable):

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and
Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE | FACILITY CODE

(V) 9A. AMENDMENT OF SOLICITATION NO.:

9B. DATED (SEE ITEM 11):

XX 10A. MODIFICATION OF CONTRACT/ORDER NO.: N00033-84-C-J0-001

10B. DATED (SEE ITEM 13): 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $21,576.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
XX The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1203B (184), 1802M (150), 1803H (188), 2535B (136), 2553B (170)
2. The Job Order Price is increased by $21,576.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

15B. CONTRACTOR/OFFEROR
Donald E. Nugent
(Signature of person authorized to sign)

15C. DATE SIGNED: 06/07/84

16B. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

16C. DATE SIGNED: 11 JUN 1984

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130015

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE

PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 2X

3. EFFECTIVE DATE 84MAY29

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE

FACILITY CODE

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-C-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $21,576.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1203B (184), 1802M (150), 1803H (188), 2535B (136), 2553B (170)
2. The Job Order Price is increased by $21,576.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR
Donald E. Nugent
(Signature of person authorized to sign)

15C. DATE SIGNED 06/07/84

16B. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

16C. DATE SIGNED

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130016

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM-23)	N00033-84-J0-001	170

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2553 B

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Fixe CO_2 Extinguisher System.

SCOPE: A. CO_2 System Repairs

1. Replace with new five (5) CO_2 warning labels para 1.A; 3.A; 4.A; 6.A and 7.C.3. as listed on CR 530.
2. Reconnect wiring to pressure switches papa 3.B; 4.B; & 7.B as listed on CR 530.
3. Replace with new siren alarm warning label, para 2.A as listed on CR 530.
4. Repair control box, para 1,B-C, as listed on CR 530.
5. Replace with new instruction plates, para 7.C-1-2, as listed on CR 530.

In Response to CR 530.

Reason For Change: Not covered in specifications.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 2119.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Steph Date 5/25/84

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 XX	136

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2535 B

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: New Alarm Panel

SCOPE: Add the following Statement:

Disconnect and remove the existing "panelarm" located in E.O.S on forward bulkhead. Supply and install a junction box. Conneet cables from sensors to junction box. Supply and install approximately 15 ft [redacted] cable from junction box to new alarm panel. Deal with 17 circuits and make required connections.

In E.O.S. disconnect and remove existing alarm bells and indicator light from evaporator salinity alarms. Re-route cabling and connect to new alarm panel.

Provide labels for above alarm points.

Re: Condition Report 509 supply labor and material required to make sensor switches and circuits compatible with the new alarm panel. This work to also include required changes in steering gear alarm circuits.

☒ Above work will be completed by current Job Order completion date of 06 July 1984

☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 6290 –

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix [illegible] Date 5/25/84

PRICE PROPOSAL
15 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 2X	188

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1803 H

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: 04/05 LVL Support Systems For X-Band

SCOPE: Provide labor and material to remove two spare 15 AMP single pole breakers from power panel 04-124-2, replace with one 3-pole 15 AMP breaker.

Install approximately 50 ft. of new cable (TSGU-4) in existing cableways from new breaker (line #1=Blk, Line #2=White, Line #3=Red) with excess coiled above the foundation for the SCR cabinet (Item No. 3070) at FR132-133 3ft port of C.L. in 04-127-0-Q.

Reason For Change: Sponsor Request

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1241.-

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 5/25/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/25/84

NWMAR130019

PRICE PROPOSAL
18 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 XX	150

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1802 M

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Structural Modifications for X-band Installation.

SCOPE: Engage the services of Bath Iron Works of Bath, Maine to review requirements for machining barbette and to report on their ability and price to provide all labor, equipment and material to machine the barbette to the required tolerances. Cost of obtaining quotation from Bath Iron Works shall not exceed $7,000.

Reason For Change: Sponsor Request

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 7638.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Steph Date 5/25/84

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
1 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 X	184

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 1203 B

PCN: XXXXXXX

PLANNER: CRAIG

TITLE: Oakite Equipment Installation.

SCOPE: Add the following paragraph to Item 1203.E.1

"Remove the existing deck tile in compartment 02-82-1-Q. In the removed area install new tile to be approved by the MSC CONREP."

Add the following paragraph to Item 1203.G. Painting on page 1203-2:

"Paint overhead and bulkheads in compartment 02-82-1-Q in accordance with item 208. Paint color is to be approved by COMSC CONREP."

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 4288

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Elgin Date 5/25/84

NWMAR130021

AMENDMENT OF SOLICITATION / MODIFICATION OF CONTRACT

CONTRACT ID CODE | PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 2W

3. EFFECTIVE DATE 84MAY21

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE FACILITY CODE

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $19,000.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. 2304 (a) (1b)

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2603 (178), 2633 (149)
2. The Job Order Price is increased by $19,000.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

15B. CONTRACTOR/OFFEROR
Donald E. Nugent, Project Manager
(Signature of person authorized to sign)

15C. DATE SIGNED 06/04/84

16B. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

16C. DATE SIGNED 11 JUN 1984

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130022

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE		PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO. 2W	3. EFFECTIVE DATE 84MAY21	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE FACILITY CODE

(V)	
	9A. AMENDMENT OF SOLICITATION NO.
	9B. DATED (SEE ITEM 11)
XX	10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
	10B. DATED (SEE ITEM 13) 83OCT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $19,000.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V)	
	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
XX	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: 10 U.S.C. 2304 (a) (1b)
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2603 (178), 2633 (149)

2. The Job Order Price is increased by $19,000.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Donald E. Nugent			
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
Donald E. Nugent, Project Manager (Signature of person authorized to sign)	06/04/84	BY (Signature of Contracting Officer)	

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130023

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	178

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2603

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: Frame 160 Watertight Door.

SCOPE: Provide labor and material to accomplish the following:

1. Install a GFM 50 AMP circuit breaker in the emergency switchboard.
2. Install a new four breaker power panel between frames 166 and 167 in the second deck certerline passageway.
3. Install two 15 AMP circuit breakers in the new power panel (one provided by Item 2574 and one provide by this Item).
4. Install new cable from the installed 50 AMP circuit breaker in the emergency switchboard to the new power panel.
5. Connect the power for the machinery space (Item 2574) and frame 160 watertight doors to the new 15 AMP circuit breakers in the new power panel.

Reason For Request: Specification error

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5197 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/18/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Capt Date 5/21/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	149

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 2633 New

PCN: XXXXXXXX

PLANNER: Geddy

TITLE: ADPE Standby Motor Generator

SCOPE: Increase scope of work by this additional item.

See specification attached.

Reason For Request: Sponsor Request

[XX] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 13,803

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Wright (Signature) 5/17/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Clark Date 5/21/84

NWMAR130025

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

CONTRACT ID CODE | PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 2V

3. EFFECTIVE DATE 84MAY14

4. REQUISITION/PURCHASE REQ. NO.

5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE | FACILITY CODE

(V) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $18,496.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2630A (169)
2. The Job Order Price is increased by $18,496.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent

15B. CONTRACTOR/OFFEROR
Donald E. Nugent, Project Manager
(Signature of person authorized to sign)

15C. DATE SIGNED 06/04/84

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

16B. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

16C. DATE SIGNED 11 JUN 1984

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130026

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES
	1

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
2V	84MAY14		

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and
Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE FACILITY CODE

(V) 9A. AMENDMENT OF SOLICITATION NO.:

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

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12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $18,496.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

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XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not. ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2630A (169)
2. The Job Order Price is increased by $18,496.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Donald E. Nugent			
15B. CONTRACTOR/OFFEROR Donald E. Nugent, Project Manager (Signature of person authorized to sign)	15C. DATE SIGNED 06/04/84	16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)	16C. DATE SIGNED

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130027

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QV	169

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2630 [illegible] A

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Frame 82 House Front Stiffening

SCOPE: Add the following to article E.2.4.

E.2.4.2. Vent System

Delete paragraph in its entirety and replace with the following:

The Contractor shall furnish all labor, material and services to fabricate and install metal vent ducting as described herein and as detail on the attached sketches.

Fabricate a metal vent ducting assembly in accordance with guidance sketches using 16-gauge aluminum, welded construction, measuring twelve inches by twelve inches, consisting of a main manifold, flexible branch connectors, and exhaust duct.

The main manifold shall be fitted with four each tubular branch pieces, six inches in diameter by fourteen inches in length, mounted on the port side vertical face of the main manifold and spaced as shown on sketches.

The main manifold shall be installed in the OAKITE Storage Compartment 02-82-1-Q and suspended from the overhead, positioned fore and aft,

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 18,496.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

at an elevation of seventy-three inches above deck level, measured from the horizontal centerline of the manifold. The four tubular branch pieces shall penetrate the adjacent bulkhead into the Communications Control Center, Compartment 02-82-0-C.

A vertical section of ducting, known as the exhaust duct, shall extend upward from the main manifold to the overhead, approximately thirty-five inches, then curve outboard at ninety degrees and extend to the outboard bulkhead of the compartment which it shall penetrate to the exterior. At the point of penetration the opening shall be protected with welded steel half-inch round stock bars spaced on three-inch centers.

On the outside of the bulkhead the opening shall be covered with a non-return sheet-metal flap, opening outward, which shall be housed within a duct hood with the discharge opening facing aft.

The four tubular branch pieces shall be fitted with six-inch diameter flexible steel helical wound pipe known as connectors and secured thereto either by 2 spring latches which will be GFM. The connectors shall extend downward to fit over the vertical discharge pipe of each pyrotechnic destruct unit and secured thereto by means of 2 spring latches which will be GFM.

The security bars at the bulkhead penetration, the non-return flap and the exterior duct hood shall be Dimecoated and given two coats of epoxy white enamel. The inboard sections of ducting shall not be painted or insulated. Contractor shall furnish COMSC CONREP with an original and two copies of as-built drawings.

E.2.4.3. Ship Service Air Outlets

The contractor shall provide all labor and material to install ship service air outlets in communication control center (02-82-0-C) and OAKITE area (02-90-2-Q) see attached sketches for exact locations. Each outlet shall consist of a shutoff valve. Air regulator, water trap w/blowdown and a quick disconnect connection.

In addition, the contractor shall supply the following material:

(1) 1 air hose 10 feet in length with quick disconnect fittings on each end. Hose to be suitable for maximum air pressure available.

(2) 1 air hose 25 feet in length. See (1) above for details.

(3) 1 air hose 75 feet in length see (1) above for details.

(4) 2 hand operated air nozzles, with quick disconnect fittings.

The contractor shall also provide stowage racks for the above material in accordance with the attached sketches.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USMS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012V	169

E.2.4.4. Cabinets and Desk

The contractor shall provide all labor and material to procure and install the following items.

(a) Two filing cabinets, legal size, 5 drawer, positive latching, lockable w/key, color gray.
(b) One desk, single pedestal (right hand), all drawing positive latching, color gray.

Foundations shall be provided to secure item (a) and (b) to the deck and the bulkhead. See attached sketch for guidance.

E.2.4.5. Work Bench and Shelf

The contractor shall furnish labor and materials to fabricate and install the foundations needed to accommodate items (A) and (B) in the Communications Control Center, Compartment 02-82-0-C. The items will be foundation and bulkhead secured.

Guidance sketch is attached.

The Contractor shall provide the labor parts, materials and services to fabricate and install a work bench and shelf in the Communications Control Center, Compartment 02-82-0-C. In accordance with the attached sketches.

The work bench will be located next to the starboard bulkhead over the Pyrotechnic Destruct Devices (PDD's) and the shelf will be located over the bench.

The bench surface shall be a minimum of three inches from top of PDD's. The shelf surface shall be a minimum of 25 inches from the top of the bench.

Securing of the bench frame to the bulkhead and deck (foundation of PDD's) shall be with mechanical means so the bench can be removed and re-installed.

The right hand side of the bench must not interfere with access to power distribution panel 02-82-2.

E.2.4.6. Electrical

The contractor shall provide labor and material to provide the work bench area a minimum of two duplex outlets, 120 volt, 60 hertz service. In case of removal and reinstallation of the bench the outlets will not be an integral part of the bench.

Reason For Change: Sponsor Request.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE	PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT NO. (If applicable)
2U	84MAY22		

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and
Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE FACILITY CODE

(✓) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $9,722.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

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XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1207D (134), 2102F (180), 2546A (163)
2. The Job Order Price is increased by $9,722.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
Donald Nugent		R. W. BEIL	
15B. CONTRACTOR/OFFEROR Donald E. Nugent, Project Manager (Signature of person authorized to sign)	15C. DATE SIGNED 06/04/84	16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)	16C. DATE SIGNED 11 JUN 1984

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130031

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE | PAGE OF PAGES

2. AMENDMENT/MODIFICATION NO. 2U | 3. EFFECTIVE DATE 84MAY22 | 4. REQUISITION/PURCHASE REQ. NO. | 5. PROJECT NO. (If applicable)

6. ISSUED BY CODE N62799

Supervisor of Shipbuilding, Conversion, and Repair, USN, 13th Naval District
Seattle, Washington 98115

7. ADMINISTERED BY (If other than Item 6) CODE

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

CODE | FACILITY CODE

(V) 9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

XX 10A. MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

10B. DATED (SEE ITEM 13) 830CT06

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)
AA17X4912.3302 000 77777 0 62387 2F 000000 3952XBAN5189 $9,722.00
N62387-84-RC-05690

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS.
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(V) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

XX C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: The Changes Clause

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not. ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1207D (134), 2102F (180), 2546A (163)
2. The Job Order Price is increased by $9,722.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print) — Donald E Nugent

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR — Donald E. Nugent, Project Manager (Signature of person authorized to sign)

15C. DATE SIGNED 06/04/84

16B. UNITED STATES OF AMERICA BY _____ (Signature of Contracting Officer)

16C. DATE SIGNED

NSN 7540-01-152-8070
PREVIOUS EDITION UNUSABLE

30-105

STANDARD FORM 30 (REV. 10-83)
Prescribed by GSA
FAR (48 CFR) 53.243

NWMAR130032

PRICE PROPOSAL
13 ND SUPSHIP,SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012U	134

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1207 D

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Communications Control Center Modifications.

SCOPE: Add the following paragraph to Item 1207.E.1:

"Install marinite bulkhead panels on the port bulkhead of the Comm. Control Center. These panel sheets are to match the new bulkhead panels in this space and will not alter present foundation positions outlined in Figure 4-1 dated 16 November 1983".

Reason: Specification deficiency.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 3236

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/18/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Date 5/21/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 2U	180

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2102 F

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: Steel Renewals

SCOPE: 1. Provide labor and material to accomplish the following:

A. Replace deck head stiffening at frames 120 and 134 port and starboard on main deck with 7"x4" x 7/16" L x 14'-6".

B. Replace bulkhead stiffening at frames 126 and 134 port and starboard on main deck with 4"x3" x 5/16" L x 8'-6".

Reason for change: C.R. 223

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5573 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/17/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Steph Date 5/21/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP / USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 24	163

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2546 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Crew Quarter Insulation

SCOPE: Bunk Installation.

1. Install one(1) GFM bunk, single, (Jamestown Type) in Stateroom 1-61-2-L.

Reason For Change: Master Request

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1063 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/17/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/21/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2T	84MAY10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

- Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$137,475.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of the Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2617 (099)
2. The Job Order Price is increased by $137,475.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84	R. W. BEIL	06 JUN 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130036

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2T	84MAY10		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$137,475.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of the Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2617 (099)
2. The Job Order Price is increased by $137,475.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130037

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	099

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2617 New

PCN: XXXXXXXX

PLANNER: BOWSER

TITLE: 1.1 Installation of new MK 27 MOD 1 GYRO Compass System.

SCOPE: 1.2 Location of Work
1.2.1 I.C. & Gyro Room, 1-2-9-Q
1.2.2 MG Room 1-82-1-E
1.2.3 Various

1.3 Identification
1.3.1 Qty (2) Sperry Gyrocompass P/N 1884068-20
1.3.2 Qty (2) Electronic Control Units P/N 1884066-2
1.3.3 Qty (2) Power Converter P/N 1884074
1.3.4 Qty (2) MK 27 MOD IA SYNCRO Signal AMP P/N 1887435
1.3.5 Qty (2) Speed Compensator P/N 1884073
1.3.6 Qty (2) MK 37 Transmission Unit P/N 1975349-1
1.3.7 Qty (2) Power Transfer Unit P/N 1887435
1.3.8 Qty (1) Transfer Switching Unit P/N 1884498
1.3.9 Qty (1) 115 VAC to 24 VDC Battery Charger

2. References

A. TAGM 23-401-4840332, IC and GYRO RM Equipment Arrangement
B. TAGM 23-426-4840518, GYRO Compass and GYRO Pilot System Isometric Wiring Diagram.
C. TAGM 23-426-4840519, GYRO Compass and GYRO Pilot System

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 137,475.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Slepter Date 5/10/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	099

2.1 The following specification items are applicable to this item.

a. 108 Technical Manual Requirements
b. 204 Structures and Foundations
c. 205 Welding
d. 206 Deck Coverings
e. 208 Painting
f. 213 Electrical Systems
g. 214 Testing
h. 304 Manufacturers Representative
i. 201

3. Requirements

3.1 Obtain the services of a manufacturers authorized representative, to provide assistance and guidance in the removal of the old MK14 GYRO System and the installation of the new Mark 27 MOD 1 GYRO System.

3.2 Disconnect and remove the following Gyrocompass equipment. Use 2a, 2b and 2e for guidance.

3.2.1 Qty (2) Master Compass MK 14 MOD IA
3.2.2 Qty (2) Amplifier Panels
3.2.3 Qty (1) Relay Transmitter MK 4 MOD 1
3.2.4 Qty (2) Gyro Compass Motor Generators
3.2.5 Qty (2) Voltage Regulators
3.2.6 Qty (2) Control Panels
3.2.7 Qty (2) Supply Transfer Panels
3.2.8 Qty (2) Syncro Amplifiers MK 7 MOD A

3.2.1 Remove all disconnected cables (Not ~~Revised~~ Re-used) in their intirety. Plug all bulkhead and deck penetration packing tubes not reused.

3.2.2 Remove switches, rheostats, meters and associated wiring in the I.C. SWBD associated with the GYRO Compass motor generators. Blank all openings in the I.C. SWBD caused by equipment removals.

3.2.3 Remove all foundations and cable hangers not reused. Grind areas smooth.

3.2.4 Remove deck penetration packing tubes for both Gyros, install inserts and weld.

3.3 Install and connect equipment identified in 1.3.

3.3.1 The foundation for the Gyro Compasses shall be approximately 30 inches high and designed to accomodate both compasses with a minimum of 6 inches clearance between them. Locate the foundation as approved by CONREP.

3.3.2 Locate equipment to use existing bulkhead space as designated by manufactures representative and CONREP.

3.3.3 Connect equipment per manufacturers representative instructions. Use cable numbers and wire numbers compatible with portion of GYRO System remaining.

3.3.4 Provide engineering service to draw a set of plans modifying 2a, 2b- and 2c to show new Gyrocompass installation.

3.3.5 Use the following cable sizes and types. All cable lengths to be taken from the ship and to suit new equipment locations. All new cables are to be run in existing cableways where practical.

3.3.5.1 All 115 VAC and 24 VDC supplies to equipment to be DSGV-3 cable.

3.3.5.2 Cables between power converters and PWR transfer units to be DSGV-3.

3.3.5.3 Cables between power transfer units and Gyrocompasses to be DSGV-3.

3.3.5.4 Cables between Gyrocompasses and transmission units to be MSCU-10.

3.3.5.5 Cable from No. 1 transmission unit to the transfer switch to be MSCU-14.

3.3.5.6 Cable from No. 2 transmission unit to transfer swithh to be MSCU-10

3.3.5.7 Cables from the Gyrocompass SYNCRO outputs to the I.C. SWBD to be 3 SUU-7.

3.3.6 Reconnect existing batteries and install cables to new battery charger to provide a seperate 24 VDC Emergency power supply to GYRO Compass. Install and connect a transfer switch to enable each 24 volt battery supply to be charged by one battery charger.

3.4 Install new deck covering where GYRO Compass foundations were removed and replace deck covering to suit new foundation. Deck covering to match existing.

3.5 Paint new and disturbed surfaces to match surrounding surfaces.

3.6 Conduct a check out and alignment of the complete GYRO System and align the repeaters to the master Gyrocompass units.

3.6.1 The manufactures representative shall do an inspection of all the new installations to insure correct connections and power supply voltages and fuse sizes.

3.7 Conduct an operational test of the complete GYRO System to prove satisfactory operation of all new equipment installed by this work item.

4. NOTES

4.1 None

SHIP USS.	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	099

5. Government Furnished Material (GFM)

5.1 None

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2S	84APR24		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offeror must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690.	000	77777	0	62387	2F	000000		3952XBAN5189	$3,438.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [X] This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2632 (141)
2. The Job Order Price is increased by $3,438.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [X] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84	R. W. BEIL	06 JUN 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130042

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2S	84APR24		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$3,438.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2632 (141)
2. The Job Order Price is increased by $3,438.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-29-84

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130043

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

E PROPOSAL
ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	141

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2632 New

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Calibration of Engine Room Gauges, Etc.

SCOPE: Provide labor, material, and equipment required to:

A) Disconnect, remove from the engine room, and place in the hands of a qualified instrument repair facility, The gauges listed.

Upper Level Gages (Throttle Platform)

Service	Press	Face Dia.
Main Feed Pump Disch.	0-1500psi	6"
#1 Fuel Oil Pump Disch.	0-600 psi	6"
#2 Fuel Oil Pump Disch.	0-600psi	6"
H.P. Turbine Steam Chest	0-1000psi	8"
Main Condenser Vacuum	0-30"vac	8"
Astern Steam at L.P. Turbine	0-800psi	6"
Gland Seal Stm	30"-0-15psi	4½"
Main Unit L.O. Header Press.	0-100psi	6"
Main Stm. to Turbine	0-1000psi	8"
Aux. Condenser Vacuum (three)	0-30"vac	5"

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 3438

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/23/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-J0-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stout Date 4/24/84

Lower Level Gages (Firing Isle) (Combustion Control Board)

SERVICE	PRESS	FACE DIA
Stbd Blr. Soperheater Press.	0-1000psi	8"
Stbd Blr. Drum Press.	0-1200psi	8"
Stbd. Blr. Desuperheater Press.	0-1000psi	6"
Fuel Oil Pressure at Burners	0-600psi	4½"
Port Blr. Superheater Press.	0-1000psi	8"
Port Blr. Drum Press.	0-1200psi	8"
Port Blr. Desuperheater Press.	0-1000psi	6"
Main Feed Pump Disch. Press.	0-1500psi	6"
Standby Feed Pump Disch. Press.	0-1500psi	6"
Fuel Oil Press. at Burners - Port Blr.	0-600psi	4½"
Fuel Oil Press at Burners - Stbd. Blr.	0-600psi	4½"

B. Rip out the main steam to turbine superheat temperature thermometer in the E.O.S.

C. Install a G.F.E. replacement.

D. Remove and hold two steam superheat thermometers from the combustion Control Board.

E. Install non-ferrous tubing gauge lines, properly supported and protected and fitted with valves at condenser end of run, from each of three condensers to the existing gauges mounted on the E.O.S. auxilary gauge board. Tubing to be 3/8" annealed copper.

Repairs or renewals found to be required are to be reported to CONREP by condition report.

All calibration work will be identified by an adhesive label applied to the instrument face stating name of company doing the work and date of calibration. Gages to be reinstalled.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2R	84APR19		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	($1,805.00)

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [X] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 302B (029), 803B (177), 1803F (176), 1803G (183), 2520B (182), 2602C (155)

2. The Job Order Price is decreased by $1,805.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [X] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84	R. W. BEIL	06 JUN 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130046

STANDARD FORM 30, JULY 1969
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2R	84APR19		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10. Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	($1,805.00)

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 302B (029), 803B (177), 1803F (176), 1803G (183), 2520B (182), 2602C (155)

2. The Job Order Price is decreased by $1,805.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130047

PRICE PROPOSAL
13 ND SUBSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-JO-001	029

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 302 B

PCN: XXXXXXXX

PLANNER: Cronce

TITLE: Emptying, Cleaning, and Gas Freeing Tank

SCOPE: Delete Para C, 1 & 2 of Item 302, the Government will take a credit for not removing 6,000 barrels of fuel oil and for 5,000 gallons of lube oil, A total of 257,000 gallons.

Contractor is to supply and administer adequate amounts of algae preventative to fuel oil tanks. DEW

~~Ktr is to remove dirty lube oils from main Engine sump & gravity tank.~~ DEW

☒ Above work will be completed by current Job Order completion date of 6 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $<16,080->

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/20/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature Date

DEPARTMENT O[redacted]
SUPERVISOR OF S[redacted]LDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012R	177

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 803 B

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: TACAN Relocation

SCOPE: Provide labor and material to accomplish the following:

A. The contractor shall connect the cables installed under paragraph E.4. page 803-3 using new contractor furnish connector pins where required. Connections shall be made in accordance with Fig. 803-2. (enclosured)

1. At the control indicator in compt 1-85-2-Q connect the following cables:

   (a) 1 EA TTSU - 1 1/2
   (b) 1 EA 2SWAU - 19
   (c) 1 EA 2SWU - 7
   (d) 1 EA MMW - 7

2. At the transponder group in compt 1-85-2-Q connect the following cables:

   (a) 1 EA LDF5 - 50
   (b) 1 EA 2 SU-3

3. At the control indicator in compt 2-134-1-C connec the following cable:

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5639 -

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

(a) 1 EA 2 SU-3

4. At the GYRO compass #2 panel in compt. 1-92-1 connect the following cable:

   (a) 1 EA NNW-7

5. At the Emerg. Ltd. load CTR. panel at 03-95-2 connect the following cables:

   (a) 1 EA TSGU-4
   (b) 1 EA TSGU-9

6. At the disconnect switch in compt 1-85-2-Q connect the following cable:

   (a) 1 EA TSGU-4

7. At the disconnect switch in compt 1-85-2-Q connect the following cable:

   (a) TSGU-9

B. The contractor shall install and connect the 25 ft. length of 2SWU-12 cable provided by paragraph E.4.(e) between the control and indicator and the transponder group, both located in compt. 1-85-2-Q.

C. The contractor shall provide, install and connect one run of TSGU-4 between the disconnect switch and the control indicator, both located in compt. 1-85-2-Q.

D. The contractor shall provide, install and connect one run of TSGU-9 between the disconnect switch and the transponder Group both located in compt 1-85-2-Q.

Reason For Change: Sponsor Request

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP / USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 OR	176

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1803 F

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: 04/05 Level Support Systems For X-Band

SCOPE: In E.7.4 delete the line calling for installation of a single circuit alarm panel in the E.O.S. and substitute the following:

In the 20 circuit X-Band status panel install a 120 VAC STDP relay activated by the status panel and wired into one alarm circuit of the new 60 circuit panel installed under Item 2535.

The 125 VAC single circuit alarm purchased under original 1803 requirements, is to be turned over to the Chief Engineer.

Reason For Change: To consolidate alarms in a logical location.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 995.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE: Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date	SUPERVISOR SHIP SURVEYOR Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

NWMAR130051

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012R	183

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1803 G

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: 04/05 LVL Support System For X-Band

SCOPE: Raise cable trays in accordance with attached sketches.

Reason for change: Sponsor request

XX Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 4431 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Sloskem Date 5/10/84

NWMAR130052

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 2R	182

COAR NO: | | | — | | | |

ITEM NO: 2520 B

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Demineralized Salt Water Cooling System.

SCOPE: A. Valve Repairs

1. Temporarily remove two (2), five (5") inch swing check valves and two (2), five (5") inch butterfly valves for repairs.

   (a) Clean and blank flanges in way of removals.
   (b) Disassemble, clean all valve parts.
   (c) Seats and gates shall be refaced and refitted.
   (d) Straighten and polish valve stems/pins.
   (e) Prior to installation remove blank flanges.

2. Reassemble and install aboard ship using all new fasteners, gaskets, and packing.

   (a) Prove tight in system under operational test.

In Response to C.R. 127

Reason For Change: Not covered in specification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 5618.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	155

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2602 C

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: No. 2 Dumbwaiter Extension

SCOPE: Delete the requirement to install the slack cable safety device per paragraph E.1.e. and reference B.1.a. of Specification Item 2602.

Reason For Change: C.R. #487

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <2458->

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Date 5/10/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
20	84APR20		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$19,405.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1206A (175), 1207E (185), 1802D (043), 1802L (187), 1803E (168), 2576A (164)

2. The Job Order Price is increased by $19,405.00.

3. The Completion Date of the T-AGM-23 is unchanged.

DUPLICATE ORIGINAL

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84	R. W. BEIL	06 JUN 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130055

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2Q	84APR20		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$19,405.00

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(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1206A (175), 1207E (185), 1802D (043), 1802L (187), 1803E (168), 2576A (164)

2. The Job Order Price is increased by $19,405.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-29-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130056

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-0012	185

COAR NO: [ ] [ ] — [ ] [ ] [ ]

ITEM NO: 1207 E

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Communications Control Center Modifications.

SCOPE: Add the following paragraph to Item 1207.E.1. Arrangements/Outfitting:

"Modify the foundations for the 12 racks installed in this item to include one - 2"x5" cableway cut (rathole) on each of the eleven crossover angles.

Reason: Sponsor request

[XX] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1860.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-JO-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dirkstein Date 5/10/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP / USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	175

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1206 A

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Precision Measurement Equipment Laboratory.

SCOPE: Add the following to Item 1206 E.2. Structural:

"b. Remove the double door that connects the PMEL Room, 1-137-1-Q with passageway 1-136-0-L.

c. Eliminate the door opening by fitting and welding in place a steel plate. The plate shall be the same thickness as the associated bulkhead. The welding shall be continuous around the plate and stiffening supports shall be installed as needed.

d. Prime and paint the passageway side in accordance with Item 208, Painting and the PMEL side in accordance with paragraph G of this Item."

Reason: Sponsor desires to correct specification error.

[X] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3553 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stoker Date 5/10/84

NWMAR130058

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001	043

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1802 D

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Structural Modifications For X-Band

SCOPE: Add the Following To Paragraph D.3.2.

(h) On the AFT side of the house port and starboard between the 02 and 03 levels ripout A 12" wide section of the existing ¼" doubler (P/S) to allow for the new doubler to be installed by reference B.1.(c).

(i) At frame 127 port and starboard below the 2nd deck remove and/or relocate the following pipe to clear the new X-Band structure

(i) 3 ea 4" soil drains starboard side. Plus overboard which will have to be inserted. Soil drains do not have to be reinstalled.

(ii) 3 ea 3" plumbing drains which will have to be replaced after support is installed (starboard side).

(iii) 2 ea 4" soil drains on port side were removed and will not have to be reinstalled. No insert will be required for overboard as shell plate is being replaced on Item 2579.

(iv) 2 ea 3" plumbing drains were removed and will be replaced after support is installed.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 16,194.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/20/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stgt Date 4/20/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-J0-001	043

~~(v) 2" overboard for garbage grinder will have to be relocated after support is installed.~~

Reason For Change:

Specification deficiency.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-00122	043

This is a continuation of Price Proposal #043 for Item 1802

Title: Structural Modification For X-Band

Scope: Add the Following to Paragraph D.3.2.

(j) At Frame 134 Starboard Side below the 17'-0" Stringer relocate the 12" Emergency Overboard for the Main Condenser to clear the X-Band Structure.

Reason For Change: Specification Deficiency

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV: 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 20	~~186~~ 187

COAR NO: [ ][ ] – [ ][ ][ ]

ITEM NO: 1802 L

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Structural Modification For X-Band Installation

SCOPE: Install Additional ladder rungs for safe access to the aft lifeboat dauits in accordance with the attached sketch.

Reason For Request: Sponsor

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1676.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-J0-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	168

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1803 E

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: 05/04 Level Support System for X-Band

SCOPE: Remanufacture ventilation duct transition pieces at blk 109 and 121 to avoid piping interferences. As described by condition report 522.

Reason For Change: Contract Dwg. Error.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1605

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

NWMAR130063

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 2Q	164

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 2576 A

PCN: XXXXXXX

PLANNER: CRONCE

TITLE: Replace Port & Stbd Econimizer Soot Seals.

SCOPE: 1. Delete paragraph E.3.(b) thru (d) and substitute the following:

(b) Mechanically clean econimizer U-Bends, seals and vesibules
(c) Paint econimizer U-Bends, seals and vestibule areas using heat resistant aluminum paint.
(d) All work completed must be inspected and accepted by COMSC CONREP.

Reason For Request: In response to C.R. 92 and further meetings with contractor.

Price Proposal 047 is hereby cancelled.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <3513.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/10/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/10/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO. 2P
2. EFFECTIVE DATE 84MAY04
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____, DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001 DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$8,353.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2625 (125)
2. The Job Order Price is increased by $8,353.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED 5-21-84

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED 30 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130065

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2P	84MAY04		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

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(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

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(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

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2. The Job Order Price is increased by $8,353.00.
3. The Completion Date of the T-AGM-23 is unchanged.
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13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130066

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	125

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2625

PCN: XXXXXXXX

PLANNER: LEMOS

TITLE: Fire and Bilge Pump

SCOPE: A. INTENT

It is the intent of this item that the Contractor shall supply all labor, materials, parts and services to overhaul the Fire and Bilge Pump located in Main Engine Room, Lower Level, Starboard Side, Frame 123.

B. REFERENCES

1. The following Technical Manual is applicable to subject equipment:

(a) NAVSEA 347-2851

2. The following data are applicable to subject equipment:

(a) Pump Mfr. - Worthington Marine and Industrial Products

Type - Centrifugal vertical

Mfr. ID - 4LV-10VERT

Mfr. Dwg. No. - RX-99702

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 8553.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/4/84

NWMAR130067

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	125

Dynamic Head	- 33 PSI
Capacity	- 600 GPM
Impeller Diam.	- 10.125 INS.
Type	- Volute
Motor Mfr.	- General Electric Company
Mfr. ID	- 5K-14-4-PK1
HP	- 50
Volts	- 440 A.C.
Cycles	- 60
Amps	- 60.5
Frame	- 404-P
Speed	- 3,550 RPM
Phase	- 3
Duty	- Continuous
Winding	- Squirrel Cage

3. The following specification items are applicable to this item:

(a) 201 Regulatory Bodies, Standards and Certificates.
(b) 203 Materials and Workmanship
(c) 208 Painting
(d) 210 Hull Piping
(e) 211 Pressure Piping
(f) 213 Electrical Systems
(g) 214 Testing
(h) 217 General Provisions for Removals

C. GOVERNMENT FURNISHED EQUIPMENT

None.

D. REMOVALS

1. All removals shall be in accordance with Reference B.3.(h).

2. Contractor shall ensure that electrical power breaker for subject pump motor is tagged open.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	125

3. Disconnect all pipe flanges and gauge tubing. Remove all hold-down bolts. Ensure pump and motor are free to be removed.

4. Lift pump and motor clear of foundation; off-load from ship and deliver to Shop for overhaul.

5. Clean off all pipe flange surfaces to bare metal and install temporary covers over same to preclude entry of foreign matter.

6. Clean off all electrical leads, install temporary insulation over each cable and and lash together clear of the deck.

E. MECHANICAL/FLUID

1. Completely disassemble the pump and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Measure and record all clearances and prepare as-found report and as-released condition report and submit to COMSC CONREP.

2. Repair and reassemble pump with all new gaskets, packing, seals and fasteners. The rotating element shall be statically and dynamically balanced prior to being installed in the pump.

3. If any parts other than those identified above are deteriorated or otherwise defective beyond economical repair they shall be replaced with new. Contractor's quote shall include the amount of $1,500.00 to cover cost of new parts. Specifically designated new parts identified elsewhere in this item are not deductible from the cash amount stated in this paragraph.

F. ELECTRICAL

1. Completely disassemble motor and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Dry out all trace of moisture and check for open field windings, grounds and insulation defects. Measure and record megohm readings and restore all windings to manufacturer's specifications.

2. Reinsulate, varnish-dip and bake until fully cured. Record final insulation values and submit as-released report to COMSC CONREP.

3. The rotating element shall be statically and dynamically balanced prior to being installed in the motor. Repair and reassemble motor with new gaskets, seals, bearings and fasteners.

4. Inspect motor controllers, switches and interconnecting leads, repair/replace as necessary, including fasteners and submit as-found and as-released report to COMSC CONREP.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012P	125

G. TESTING

1. Upon completion of installation and reconnection of pump and motor operational testing shall be performed in accordance with Reference B.2.(g). Motor shall be bench tested for one half hour.

2. With the approval of COMSC CONREP and with Ship's Force assistance, pump and motor assembly shall be operationally tested under normal load for not less than two hours.

H. PAINTING

1. All painting shall be in accordance with Reference B.2.(c).

2. Prepare pump foundation and casing plus motor housing for painting by wire brushing and cleaning to bare metal.

3. All new exterior surfaces and disturbed surfaces shall be primed and painted to match original condition.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
20	84MAY04		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$24,305.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2002A (078), 2509B (181)

2. The Job Order Price is increased by $24,305.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84	R. W. BEIL	30 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130071

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
20	84MAY04		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$24,305.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2002A (078), 2509B (181)

2. The Job Order Price is increased by $24,305.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130072

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	181

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2509 B

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Overhaul two (2) steering Gear Hydraulic Pumps.

SCOPE: Provide labor, material and equipment required to disconnect, rig out of ship and transport the port and starboard steering gear pumps to shop. Open and strip for examination. Place in the hands of a contractor capable of rebuilding or replacing worn and damaged parts to equivalent of new machinery, test completed pumps for rated output of pressure and volume at normal speed and demonstrate output rate variation to be in correct relation to control input. Document all as rebuilt dimensions and test results. Obtain an ABS survey report verifying witness by ABS to their requirements and stating that re-installation of these pumps will maintain the vessels existing machinery classification.

Provide CONREP with 6 copies of all documentation and original and 2 copies of ABS survey report prior to re-delivery of vessel.

Provide sub-contractor with assistance required to successfully complete his work.

Re-install pumps in correct alignment and ready for service. Above provision to include flushing of hydraulic system to satisfaction of CONREP.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 19,860.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE
Signature A. Dix Stephen Date 5/4/84

NWMAR130073

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	078

COAR NO: [ ] [ ] — [ ] [ ] [ ]

ITEM NO: 2002 A

PCN: XXXXXXX

PLANNER: STEPHENS

TITLE: Electrical Circuit (Cable) Removal

SCOPE: Utilize attached specification to remove unused cables.

This is in response to CR 134 and 264.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 445 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 5/4/84 (Date)

CONTRACTOR: CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 5/4/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2N	84MAY07		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$24,023.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2606 (036), 2624 (124)
2. The Job Order Price is increased by $24,023.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR	17. UNITED STATES OF AMERICA
BY Donald E. Nugent (Signature of person authorized to sign)	BY R W Beil (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84	R. W. BEIL	30 MAY 1984

30-101 Modified SUPSHIP 12 OP #1 (Rev. 8-70)

NWMAR130075

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO. 2N
2. EFFECTIVE DATE 84MAY07
3. REQUISITION/PURCHASE REQUEST NO.
4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____, DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001 DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$24,023.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2606 (036), 2624 (124)
2. The Job Order Price is increased by $24,023.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED 5-21-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

0-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130076

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	124

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2624 New

PCN: XXXXXXXX

PLANNER: LEMOS

TITLE: Aft Fire Pump

SCOPE: A. INTENT

It is the intent of this item that the Contractor shall supply all labor, materials, parts and services to overhaul the Aft Fire Pump and Motor located in Compartment 4-184-2.

B. REFERENCES

1. The following Technical Manual is applicable to subject equipment:

(a) NAVSEA 347-2979

2. The following data are applicable to subject equipment:

(a) Pump Mfr.	- Worthington Marine and Industrial Products
Type	- Centrifugal horizontal
Mfr. ID	- 6-LBS
Mfr. Dwg. No.	- SL-10097
Dynamic Head	- 150 PSI
Capacity	- 1,000 GPM
Impeller Diam.	- 9.8125 INS.
Type	- Volute, Single Stage, Double Suction

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 11,782 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/4/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USMS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	124

Motor Mfr.	- General Electric Company
Mfr. ID	- 5K-1445-T-A1
HP	- 100
Volts	- 440 A.C.
Cycles	- 60
Amps	- 120
Frame	- 445-P
Speed	- 3,560 RPM
Phase	- 3
Duty	- Continuous
Winding	- Squirrel Cage

3. The following specification items are applicable to this item:

(a) 201 Regulatory Bodies, Standards and Certificates.
(b) 203 Materials and Workmanship
(c) 208 Painting
(d) 210 Hull Piping
(e) 211 Pressure Piping
(f) 213 Electrical Systems
(g) 214 Testing
(h) 217 General Provisions for Removals

C. GOVERNMENT FURNISHED EQUIPMENT

None.

D. REMOVALS

1. All removals shall be in accordance with Reference B.3.h.
2. Contractor shall ensure that electrical power breaker for subject pump motor is tagged open.
3. Disconnect all pipe flanges and gauge tubing. Remove all hold-down bolts. Ensure pump and motor are free to be removed.
4. Lift pump and motor clear of foundation; off-load from ship and deliver to Shop for overhaul.
5. Clean off all pipe flange surfaces to bare metal and install temporary covers over same to preclude entry of foreign matter.
6. Clean off all electrical leads, install temporary insulation over each cable end and lash together clear of the deck.

E. MECHANICAL/FLUID

1. Completely disassemble the pump and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Measure and record all clearances and prepare as found report and as-released condition report and submit to COMSC CONREP.

2. Repair and reassemble pump with all new gaskets, packing, seals and fasteners. The rotating element shall be statically and dynamically balanced prior to being installed in the pump.

3. If any parts other than those identified above are deteriorated or otherwise defective beyond economical repair they shall be replaced with new. Contractor's quote shall include the amount of $1,500.00 to cover cost of new parts. Specifically designated new parts identified elsewhere in this item are not deductible from the cash amount stated in this paragraph.

F. ELECTRICAL

1. Completely disassemble motor and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Dry out all trace of moisture and check for open field windings, grounds and insulation defects. Measure and record megohm readings and restore all windings to manufacturer's specifications.

2. Reinsulate, varnish-dip and bake until fully cured. Record final insulation values and submit as-released report to COMSC CONREP.

3. The rotating element shall be statically and dynamically balanced prior to being installed in the motor. Repair and reassemble motor with new gaskets, seals, bearings and fasteners.

4. Inspect motor controllers, switches and interconnecting leads, repair/replace as necessary, including fasteners and submit as-found and as-released report to COMSC CONREP.

G. TESTING

1. Upon completion of installation and reconnection of pump and motor operational testing shall be performed in accordance with Reference B.3.(g). Motor shall be bench tested for one half hour.

2. With the approval of COMSC CONREP and with Ship's Force assistance, pump and motor assembly shall be operationally tested under normal load for not less than two hours.

H. PAINTING

1. All painting shall be in accordance with Reference B.2.(c).
2. Prepare pump foundation and casing plus motor housing for painting by wire brushing and cleaning to bare metal.
3. All new exterior surfaces and disturbed surfaces shall be primed and painted to match original condition.

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	036

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2606 New

PCN: XXXXXXX

PLANNER: CRAIG

TITLE: Miscellaneous Insulation Repairs.

SCOPE: [redacted]

A. INTENT

It is the intent of this item that the Contractor shall provide all labor and material required to install insulation in miscellaneous areas aboard ship.

B. REFERENCES

1. The following drawing is applicable to this item:

DWG. NO.	Title
T-AGM-23-845-4840215-B	Booklet of General Plans

2. The following specification items are applicable to this item:

(a) 201 Regulatory Bodies, Standards and Certificates.
(b) 202 Access and Maintenance Requirements.
(c) 207 Insulation and Lagging.
(d) 208 Painting

☒ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 17,041

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Wright (Signature) 5/4/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-84-J0-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 5/4/84

(e) 217 General Provisions for Removals.

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None

D. REMOVALS

All removals made for convenience of accomplishing this specification shall be in accordance with Reference B.2.e.

E. SCOPE OF WORK

1. Arrangement/Outfitting

(a) Install 1½ inch faced insulation in the nine separate areas where it is missing in space 1-132-2-L (Approx. 30 ft^2 required). Ref. CR #84.

2. Install additional insulation to match existing, 6" above the deck in the officers mess room and lounge, 02-123-0-L on the Aft and Portside bulkheads (Approx 30 ft^2 required) Ref. CR #260.

3. Install additional 1 inch insulation to match existing, 5-6 inches above the deck on the outboard bulkhead and around all outboard frames and stiffeners in the following spaces (Approx. 230 ft^2 required):

SR 2-36-1-L
" 2-42-1-L
" 2-48-1-L
" 2-53-1-L
" 2-57-1-L
" 2-62-1-L
" 2-67-1-L
" 2-71-1-L
" 2-75-1-L
" 2-79-1-L
" 2-82-3-L
" 2-86-1-L
MED Treatment Room 2-79-2-Q
Emergency Operating Room 2-75-4-Q
Ward 2-67-4-L
SR 2-59-2-L
Linen Locker 2-57-4-Q
SR 2-53-2-L
SR 2-48-2-L
SR 2-42-2-L
SR 2-36-4-L

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	036

This new insulation shall be finished at the base with a minimum of 4 inches of vinyl runner. This runner shall be securely fastened to prevent mop water damage to new insulation.

4. Install 1 inch faced insulation onto the outboard, bulkhead, frames, and stiffeners of the medical ward bath 2-65-2-L. Insulation shall run to deck where it shall be fitted with vinyl runner specified in para.3. (approx. 100 ft^2 insulation required).

5. New insulation shall be secured with welded studs and buttons and taped at seams to existing insulation.

6. Installation and workmanship shall be to the satisfaction of the COMSC CONREP.

F. INTERFACES

Items 1802, 2546, and 502.

G. PAINTING

All new materials and disturbed areas shall be painted to match surrounding areas in accordance with Reference B.2.d.

H. MARKING AND LABELING

None

I. TESTING

None

J. MANUFACTURERS REPRESENTATIVE

None

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2M	84MAY07		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$14,427.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2622 (126), 2623 (127)
2. The Job Order Price is increased by $14,427.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84	R. W. BEIL	30 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130083

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2M	84MAY07		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 83OCT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

- Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$14,427.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2622 (126), 2623 (127)
2. The Job Order Price is increased by $14,427.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-21-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130084

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGN 23	N00033-84-J0-001	127

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2623 New

PCN: XXXXXXX

PLANNER: LEMOS

TITLE: 500 KW Gen. S.W. Booster Pump

SCOPE: A. INTENT

It is the intent of this item that the Contractor shall supply all labor, materials, parts and services to overhaul the 500 KW Generator Sea Water Booster Pump and motor located in Compartment 4-14-0.

B. REFERENCES

1. The following Technical Manual is applicable to subject equipment:
   (a) NAVSEA 345-3152

2. The following data are applicable to subject equipment:

(a) Pump Mfr.	- Weil Pump Company
Type	- Centrifugal horizontal
Mfr. ID	- A-1308
Mfr. Dwg. No.	- S-2753
Dynamic Head	- 25 PSI
Capacity	- 300 GPM
Impeller Diam.	- 4.87 INS.
Type	- Single Stage Volute
Motor Mfr.	- General Dynamics Corporation

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 7098

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 5/4/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	127

Mfr. ID	- Pattern No. 39
HP	- 7.5
Volts	- 440 A.C.
Cycles	- 60
Amps	- 10.6
Frame	- 326-Y
Speed	- 3,460 RPM
Phase	- 3
Duty	- Continuous
Winding	- Squirrel Cage

3. The following specification items are applicable to this item:
   (a) 201 Regulatory Bodies, Standards and Certificates.
   (b) 203 Materials and Workmanship.
   (c) 208 Painting
   (d) 210 Hull Piping
   (e) 211 Pressure Piping
   (f) 213 Electrical Systems
   (g) 214 Testing
   (h) 217 General Provisions for Removals

C. GOVERNMENT FURNISHED EQUIPMENT

None

D. REMOVALS

1. All removals shall be in accordance with Reference B.3.(h).
2. Contractor shall ensure that electrical power breaker for subject pump motor is tagged open.
3. Disconnect all pipe flanges and gauge tubing. Remove all hold-down bolts. Ensure pump and motor are free to be removed.
4. Lift pump and motor clear of foundation; off-load from ship and deliver to Shop for overhaul.
5. Clean off all pipe flange surfaces to bare metal and install temporary covers over same to preclude entry of foreign matter.
6. Clean off all electrical leads, install temporary insulation over each cable end and lash together clear of the deck.

E. MECHANICAL/FLUID

1. Completely disassemble the pump and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Measure and record all clearances and prepare as-found report and as-released condition report and submit to COMSC CONREP.

2. Repair and reassemble pump with all new gaskets, packing, seals and fasteners. The rotating element shall be statically and dynamically balanced prior to being installed in the pump.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	127

3. If any parts other than those identified above are deteriorated or otherwise defective beyond economical repair they shall be replaced with new. Contractor's quote shall include the amount of $1,500.00 to cover cost of new parts. Specifically designated new parts identified elsewhere in this item are not deductible from the cash amount stated in this paragraph.

F. ELECTRICAL

1. Completely disassemble motor and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Dry out all trace of moisture and check for open field windings, grounds and insulation defects. Measure and record megohm readings and restore all windings to manufacturer's specifications.

2. Reinsulate, varnish-dip and bake until fully cured. Record final insulation values and submit as-released report to COMSC CONREP.

3. The rotating element shall be statically and dynamically balanced prior to being installed in the motor. Repair and reassemble motor with new gaskets, seals, bearings and fasteners.

4. Inspect motor controllers, switches and interconnecting leads, repair/replace as necessary, including fasteners and submit as-found and as-released report to COMSC CONREP.

G. TESTING

1. Upon completion of installation and reconnection of pump and motor operational testing shall be performed in accordance with Reference B.3.(g). Motor shall be bench tested for one half hour.

2. With the approval of COMSC CONREP, pump and motor assembly shall be operationally tested under normal load for not less than two hours.

H. PAINTING

1. All painting shall be in accordance with Reference B.2.(c).
2. Prepare pump foundation and casing plus motor housing for painting by wire brushing and cleaning to bare metal.
3. All new exterior surfaces and disturbed surfaces shall be primed and painted to match original condition.

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	126

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2622 Rev

PCN: XXXXXXXX

PLANNER: LEMOS

TITLE: 200 KW Gen. S.W. Booster Pump

SCOPE:

A. INTENT

It is the intent of this item that the Contractor shall supply all labor, materials, parts and services to overhaul the 200 KW Generator Sea Water Booster Pump and motor located in Compartment 2-184-2-E.

B. REFERENCES

1. The following Technical Manual is applicable to subject equipment:
   (a) NAVSEA 347-3152

2. The following data are applicable to subject equipment:

(a) Pump Mfr.	- Weil Pump Company
Type	- Centrifugal horizontal
Mfr. ID	- A-1300
Mfr. Dwg. No.	- S-2753
Dynamic Head	- 25 PSI
Capacity	- 300 GPM
Impeller Diam.	- 4.87 INS.
Type	- Single Stage Volute
Motor Mfr.	- Reliance Electric Company

XXX Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 7329 ea

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) Date 5/4/84

CONTRACTOR CONTRACT NO. N00033-84-JO-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Lt Date 5/4/84

NWMAR130088

Mfr. ID	- Ser 1YM-125727
HP	- 5.0
Volts	- 440 A.C.
Cycles	- 60
Amps	- 6.8
Frame	- CA-284NCZ
Speed	- 3,500 RPM
Phase	- 3
Duty	- Continuous
Winding	- Squirrel Cage

3. The following specification items are applicable to this item:

(a) 201 Regulatory Bodies, Standards and Certificates.
(b) 203 Materials and Workmanship
(c) 208 Painting
(d) 210 Hull Piping
(e) 211 Pressure Piping
(f) 213 Electrical Systems
(g) 214 Testing
(h) 217 General Provisions for Removals

C. GOVERNMENT FURNISHED EQUIPMENT

None

D. REMOVALS

1. All removals shall be in accordance with Reference B.3.(h).
2. Contractor shall ensure that electrical power breaker for subject pump motor is tagged open.
3. Disconnect all pipe flanges and gauge tubing. Remove all hold-down bolts. Ensure pump and motor are free to be removed.
4. Lift pump and motor clear of foundation; off-load from ship and deliver to Shop for overhaul.
5. Clean off pipe flange surfaces to bare metal and install temporary covers over same to preclude entry of foreign matter.
6. Clean off all electrical leads, install temporary insulation over each cable end and lash together clear of the deck.

E. MECHANICAL/FLUID

1. Completely disassemble the pump and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Measure and record all clearances and prepare as-found report and as-released condition report and submit to COMSC CONREP.

2. Repair and reassemble pump with all new gaskets, packing, seals and fasteners. The rotating element shall be statically and dynamically balanced prior to being installed in the pump.

3. If any parts other than those identified above are deteriorated

or otherwise defective beyond economical repair they shall be replaced with new. Contractor's quote shall include the amount of $1,500.00 to cover cost of new parts. Specifically designated new parts identified elsewhere in this item are not deductible from the cash amount stated in this paragraph.

F. ELECTRICAL

1. Completely disassemble motor and thoroughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Dry out all trace of moisture and check for open field windings, grounds and insulation defects. Measure and record megohm readings and restore all windings to manufacturer's specifications.

2. Reinsulate, varnish-dip and bake until fully cured. Record final insulation values and submit as-released report to COMSC CONREP.

3. The rotating element shall be statically and dynamically balanced prior to being installed in the motor. Repair and reassemble motor with new gaskets, seals, bearings and fasteners.

4. Inspect motor controllers, switches and interconnecting leads, repair/replace as necessary, including fasteners and submit as-found and as-released report to COMSC CONREP.

G. TESTING

1. Upon completion of installation and reconnection of pump and motor operational testing shall be performed in accordance with Reference B.3.(g). Motor shall be bench tested for one half hour.

2. With the approval of COMSC CONREP, pump and motor assembly shall be operationally tested under normal load for not less than two hours.

H. PAINTING

1. All painting shall be in accordance with Reference B.2.(c).

2. Prepare pump foundation and casing plus motor housing for painting by wire brushing and cleaning to bare metal.

3. All new exterior surfaces and disturbed surfaces shall be primed and painted to match original condition.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2L	84MAY07		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN.
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$16,119.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802B (032), 1802I (148), 2003A (158), 2004A (152), 2507D (171), 2618A (167)

2. The Job Order Price is increased by $16,119.00. **DUPLICATE ORIGINAL**

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84	R. W. BEIL	30 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130091

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2L	84MAY07		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

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(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$16,119.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

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(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802B (032), 1802I (148), 2003A (158), 2004A (152), 2507D (171), 2618A (167)

2. The Job Order Price is increased by $16,119.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-21-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130092

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP / USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QL	167

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2618 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Overhaul ADP Area A/C Units.

SCOPE: Add The Following To Item:

Supply and install one (1) "Penn" 2 1/2" V46 BB condensing water regulating valve.

Reason For Change: Condition of valve not known at time of writing item.

RE: C.R. 444

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 631 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/4/84

NWMAR130093

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS USNS OBSERVATION ISLAND (T-AGM-23)

JOB ORDER NO. N00033-84-J0-0012L

SERIAL NO. 171

COAR NO: ___-___

ITEM NO: 2507 D

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Boiler Cleaning and Inspections.

SCOPE: A. Handhole Gasket Renewal, Port and Stbd Boilers

1. Of the approximately 200 handhold plugs 97 have been removed by the contractor for inspection. Replace with new the remaining handhole plug gaskets, (approximately one hundred three (103) hand hole gaskets).

   (a) Thoroughly clean the landing surfaces of the handhole plugs and headers.
   (b) Using die nut run down threads on handhole plugs.

2. Close up boilers ready for steaming, install all removed handhole plugs.

3. Clean and paint all headers using heat resistant aluminum paint.

In Response To CR. 92

Reason For Change: Not covered in specifications.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to ____

TOTAL PRICE $ 6311

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/3/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 5/4/84

NWMAR130094

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	152

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2004 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Additional Repairs to Boiler Casings and Casing Doors

SCOPE: A. INTENT

During the examination of the boilers, it may be determined that certain areas of the casings, inner liners, or refractory need to be renewed. It is the intent of this Item that the Contractor supply all labor and material required to renew those sections designated by the MSC CONREP as needing replacement.

B. REFERENCES

The following Specification Items are applicable to this Item:

1. 201 Regulatory Bodies, Standards and Certificates
2. 202 Access and Maintenance Requirements
3. 203 Materials and Workmanship
4. 204 Structure and Foundations
5. 205 Welding
6. 207 Insulation and Lagging
7. 208 Painting
8. 210 Hull Piping
9. 211 Pressure Piping
10. 214 Testing
11. 215 Nameplates, Notices and Markings

[XX] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 3262 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/3/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature [illegible] Date 5/4/84

SHIP USS USNS OBSERVATION ISLAND T-AGM 23	JOB ORDER NO. N00033-88-JO-001 2L	SERIAL NO. 152

12. 217 General Provisions for Removals

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None

D. REMOVALS

All removals shall be in accordance with Reference B.12.

E. SCOPE OF WORK

Port Boiler

1. Install a new entire inner liner and refractory retainer on three (3) designated waterwall door complete with all new insulation and refractory. Heat and fair door as required. Retape door. New liner-retainer shall be stainless steel.

Port and Starboard Boilers

2. Ripout designated deteriorated sections of inner or outer casing. Install new sections which shall be fully welded to form a gastight seal. Approximately thirty (30) Sq feet, water drum area.

[redacted]

In Response to C.R. 92.

Reason: Not covered in specifications.

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP / USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	158

COAR NO: [ ]

ITEM NO: 2003 A

PCN: XXXXXXX

PLANNER: CRONCE

TITLE: Additional Steam Valve Renewals

SCOPE: A. INTENT

During the electric generator replacement, system hydrostatic tests, and boiler hydrostatic tests, it may be determined that certain valves are beyond repair. It is the intent of this Item that the Contractor supply all labor and materials to replace those valves determined to be beyond repair.

B. REFERENCES

The following Specification Items are applicable to this Item:

1. 201 Regulatory Bodies, Standards and Certificates
2. 202 Access and Maintenance Requirements
3. 203 Materials and Workmanship
4. 204 Structure and Foundations
5. 205 Welding
6. 207 Insulation and Lagging
7. 208 Painting
8. 210 Hull Piping
9. 211 Pressure Piping
10. 214 Testing
11. 215 Nameplates, Notices and Markings

XX Above work will be completed by current Job Order completion date of 06 July 1984

☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 2473 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 5/4/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-84-JO-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 5/4/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-0012L	158

12. 217 General Provisions for Removals

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None

D. REMOVALS

Rip out those valves that the MSC CONREP determines as needing replacement.

All removals shall be in accordance with Reference B.12.

E. SCOPE OF WORK

1. Replace with new two (2), two (2") 600 PSI inch flanged, steel, globe valves; soot blower line stop valve & soot blower root steam valve on the Port Boiler.

   a. Clean flanges in way of removals.

2. Replace with new two (2), one half (½) inch 600 PSI flanged steel globe valves, the superheater gage line valve, Port and Stbd Boilers.

Note: Material for valves shall be steel with chrome-molybdenum seat & disc.

In Response to C.R. 92

Reason For Change: Not covered in specifications

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND	N00033-84-J0-001 2L	148

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1802 i

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Independent Verification of X-Band Barbette Flange Planar Alignment.

SCOPE: The contractor shall supply the following support during the alignment verification:

a. Remove barbette mount flange cover and preservative.

b. Represerve and reinstall cover on barbette mount flange between alignment check periods and at end of alignment check.

c. Provide three (3) 6-foot step ladders for access to barbette mount flange (two ladders on the exterior and one ladder in the interior of the barbette.

d. Provide a 12-foot long, 6" x 10.5 lb channel, and lay channel across barbette mount flange diameter.

e. Provide access to Compartment 3-167-1-V, location of lower granite level block.

f. Provide lighting at barbette area and in 3-167-1-V in way of granite block.

The contractor shall submit time and material invoices to cover above support.

Reason For Change: Sponsor Request

[X] Above work will be completed by current Job Order completion date of 06 July 1984

[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1660.50

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 5/4/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND	N00033-84-JO-001	032

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1802 B

PCN: XXXXXXXX

PLANNER: Madden

TITLE: Structural Modifications For X-Band Installation

SCOPE: Delete paragraph G.1 in its entirety and replace with the following:
(see attached sheets)

Reason: Specification Clasification.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1777.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 5/4/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 5/4/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGN 23	N00033-84-J0-0012	032

This is a corrected copy for P.P. #032

G.1.

There is an existing granite block in compartment 04-90-0-Q that serves as the "master level" for alignment of the ~~S-band~~ equipment on-board the ship. In order to insure that the new X-band system and the existing S-band system are installed in the same plane, parallelism checks shall be made. Prior to drydocking the ship a parallelism check between the "master level" block and the benchmarks located at the inertial measurement unit (IMU) on the T3 level of the S-band turret shall be made and recorded. After drydocking of the ship another parallelism check shall be made and recorded between the IMU benchmarks and the "master level" block, the IMU benchmarks and the IMU cube and the IMU benchmarks and the IMU mirror.

~~Prior to undocking the vessel and after completion of the X-bnad structural modifications, and before setting the barbette, a parallelism check shall be made between the IMU benchmarks and the "master level" block.~~ DEN POV CONREP

~~The contractor shall also submit a break-out price for a parallelism check between the IMU benchmarks and a granite block located in compartment 3-167-1-V. The CONSC CONREP will advise the Contractor if this final check is necessary after review of the previous checks.~~

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
F.P.R. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2K	84APR24		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$1,478.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1702F (137)

2. The Job Order Price is increased by $1,478.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-17-84	R. W. BEIL	21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130102

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2K	84APR24		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$1,478.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1702F (137)

2. The Job Order Price is increased by $1,478.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-17-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130103

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-J0-001 2K	137

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1702 D.F. (4)

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Equipment Removals

SCOPE: Provide Labor, Material, and Equipment required to ship the four (4) SSTG sets and spares including condensers, exhaust trunks, condensate pumps/motors, salt water circulator pumps/motors, and any other identifiable equipment by motor frieght to the following address:

Naval Supply Center
Oakland CA

Mark for: MSC PAC/USNS Dutton

NOTE: This machinery does not require to be covered. Loose parts/ spares may be strapped to pallets.

Shipment should be COD. Motor freight COD Bill will be paid by MSCPAC Code P-4S Government Bill of Lading.

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1478.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dix Slegh Date 4/25/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 2J	2. EFFECTIVE DATE 84APR24	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
5. ISSUED BY CODE SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN, Seattle, Washington 98115		6. ADMINISTERED BY (If other than block 5) CODE	

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$12,918.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802F (102)

2. The Job Order Price is increased by $12,918.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR BY Donald E Nugent (Signature of person authorized to sign)		17. UNITED STATES OF AMERICA BY R W Beil (Signature of Contracting Officer)	
15. NAME AND TITLE OF SIGNER (Type or print) Donald E. Nugent Project Manager	16. DATE SIGNED 5-17-84	18. NAME OF CONTRACTING OFFICER (Type or print) R. W. BEIL	19. DATE SIGNED 21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130105

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2J	84APR24		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN.
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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10 Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$12,918.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

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(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1802F (102)

2. The Job Order Price is increased by $12,918.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-17-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130106

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 QJ	102

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1802 F

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Structural Modification For X-Band

SCOPE: Add the Following:

"E.2.1.5 Operations Control Center

The Contractor shall supply all labor and material to:

i) Reroute the air supply vent located between FR 134 & 135 inboard to clear the new doubler plate required by reference B.1.c. This is to include removal of old duct, inserting deck penetration, installation of new vertical ducting and deck penetration and relocation of the axial fan approx 3' inboard.

ii) Remove and insert deck drain outboard between FR 134 & 135.

iii) Reroute ½" condensate drain from previously removed deck drain to a new deck penetration aft of FR 136. This drain is then to tie into the existing 1½" deck drain overboard line located below.

iv) Repair all disturbed insulation and paint areas affected by work to match surrounding space."

Reason for change: In response to C.R. #318

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 12,918 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 4/24/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature _____ Date _____

SUPERVISOR
SHIP SURVEYOR
Signature _____ Date _____

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Date 4/25/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
21	84APR25		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$15,000.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

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(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2582A (130)

2. The Job Order Price is increased by $15,000.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR	17. UNITED STATES OF AMERICA
BY Donald E. Nugent (Signature of person authorized to sign)	BY R. W. Beil (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-17-84	R. W. BEIL	21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130108

SUPSHIP SEATTLE
MAY 21 9 56 AM '84
RECEIVED

NWMAR130109

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2I	84APR25		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$15,000.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2582A (130)

2. The Job Order Price is increased by $15,000.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-17-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130110

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QI	130

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2582 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Mooring Capstan Survey.

SCOPE: A. Overhaul Electric Motors (a) and Repair Gear Boxes (2).

1. Temporarily remove gear boxes and disassemble.

   (a) Replace with new, all bearings, seals, and gaskets.
   (b) Reinstall using all new fasteners.

2. Temporarily remove electric motors.

   (a) Completely disassemble motor and throughly clean all parts, inspect and check for conformance to manufacturer's design specifications. Dry out all trace of moisture and check for open field windings, grounds and insulation defects. Measure and record megohm readings and restore all windings to manufacturer's specifications.
   (b) Reinsulate, varnish-dip and bake until fully cured. Record final insulation values and submit as-released report to COMSC CONREP.
   (c) The rotating element shall be statically and dynamically balanced prior to being installed in the motor. Repair and reassemble motor with new gaskets, seals, bearings and fasteners.

In Response to C.R. 104 and 110.
Reason For Change: Not covered in specifications.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 15,000 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/25/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-J0-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature S. Dix Stephen Date 4/25/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2H	84APR19		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods: (a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	A Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$53,485.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2620A (092)

2. The Job Order Price is increased by $53,485.00.

DUPLICATE ORIGINAL

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-17-84	R. W. BEIL	21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130112

SUPSHIP SEATTLE
MAY 21 9 56 AM '84
RECEIVED

NWMAR130113

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2H	84APR19		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[X] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

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AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$53,485.00

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The Changes set forth in block 12 are made to the above numbered contract/order.

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(c) [X] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2620A (092)

2. The Job Order Price is increased by $53,485.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-17-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130114

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QH	092

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2620 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Classification and Regulatory Inspection Requirements For Hull Connected Valves.

SCOPE: The Item intent is that the Contractor shall provide labor material and equipment needed to open, examine, and repair as required all hull connection valves.

1. Open listed valves, clean, spot in disk/seats and show seating fit by blueing. Present valves for survey/inspection by all interested parties and when directed re-assemble and close up preserving with apexior #3 or equal and using new gaskets/packing and renewing all wasted or missing fastings.

2. In addition to the above, the following repairs are to be accomplished by the Contractor.

a) The following valves are to be removed and replaced with blank flanges, new gaskets and fastenings:

2" gate at 02-22-2
2 1/2" gate at 03-87-1
1 1/4" gate at 04-105-2
1 1/2" gate at 04-136-1
2" gate at 03-187-2
1 1/2" gate at 03-189-2

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 53,485

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/20/84 (Date)

CONTRACTOR

CONTRACT NO. ~~N00033-70-C-0075~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 4/20/84

NWMAR130115

b) The following sea valves are to be repaired by removing same from the piping, transport to shop, cleaned internally, and build up the disk guides by welding. Hand fit disk to ~~be~~ built up guides and disks to seats. Leak test valves at operating pressure. Re-transport to vessel and re-install with new gaskets and fastenings. Check valve position indicator for accuracy and correct if required.

6" gate at 04-114-2
10" gate at 04-130-2

c) The following valves are to be removed complete with piping. (Note: external doublers had previously been fitted).

1 1/2" gate at 04-93-2
1 1/2" gate at 04-94-1

d) The following valves are to be removed, new equivalent valves supplied and installed with new gaskets and fasteners.

2" gate at 03-144-2
4" gate at 03-144-2
3" gate at 03-084-2
3" gate at 03-085-2
5" gate at 04-167-2

e) The following valves are to be removed complete with piping, the hull penetration enlarged and a 12" diameter insert piece welded in. Welding to be radiographed and radiograph to be examined and approved by the local ABS surveyor. External and internal coatings to be repaired.

1" gate at 03-155-2
1" gate at 02-197-1

f) The cu-ni piping between the hull and the valves listed below is to be removed and replaced by sched. 80 steel pipe with a flanged inboard end and valve re-installed thereon with new gaskets and fasteners. (Note: valves worked on Part 1D)

2 1/2" gate at 02-167-1
2 1/2" gate at 02-174-1

g) In order to identify all currently in service hull connected valves and redundant or discontinued valves and associated piping, the Contractor is tasked to search all spaces and compartments adjacent to the hull sides and bottom to locate, mark and identify the valves and their status and service. Prepare a list showing location, size, type of valve and service of all in service valves. (Approximately 95 valves.)

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2G	84APR23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$14,603.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2605A (154)

2. The Job Order Price is increased by $14,603.00.

3. The Completion Date of the T-AGM-23 is unchanged

DUPLICATE ORIGINAL

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-17-84	R. W. BEIL	21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130117

SUPSHIP STATEN I.
MAY 21 9 56 AM '84
RECEIVED

NWMAR130118

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2G	84APR23		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____.

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$14,603.00

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USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 2605A (154)

2. The Job Order Price is increased by $14,603.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-17-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130119

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	154

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2605 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: 500 KW Diesel Generator

SCOPE: A. Additional Repairs

1. Overhaul L.O. Cooler
   (a) Remove old solder from tubes, clean and resolder in header.
   (b) Prove tight.
2. Replace with new seven (7) roller arm shaft bushings.
3. Disassemble all twelve (12) cylinder heads, clean, replace with new valve guide seals, lap in valves to seats.
4. Hone cylinders & replace with new twelve (12) sets of piston rings.
5. Replace with new twelve (12) sets rod bearing.
6. Replace with new seven (7) main bearing shells.
7. Replace with new twelve (12) wrist pin floating bushing.
8. Replace with new accessory drive gear train bushings.
9. Replace with new one(1) complete CAM shaft bearings.

In Response to CR 500 & 501

Reason For Change: Not covered in Specification.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 14,603

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/23/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/24/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2F	84APR19		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

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7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

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(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 502B (140), 1205A (146), 1502A (159), 1626 (111), 1703F (133), 1706B (161), 1804B (100), 2527D (139)
2. The Job Order Price is increased by $21,141.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-17-84

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130121

SUPSHIP SEATTLE
MAY 21 9 56 AM '84
RECEIVED

NWMAR130122

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2F	84APR19		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,141.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 502B (140), 1205A (146), 1502A (159), 1626 (111), 1703F (133), 1706B (161), 1804B (100), 2527D (139)

2. The Job Order Price is increased by $21,141.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-17-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130123

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 2F	139

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2527 D

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: 200 KW Emergency Diesel Generator.

SCOPE: A. Tachometer, Renewal.

1. Replace with new, one (1) tachometer, cable, and adapters to suite installation.

In Response to CR 430.

Reason For Change: Not in Specifications.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1580.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/19/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/20/84

NWMAR130124

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QF	100

COAR NO: [ ]

ITEM NO: 1804 D

PCN: XXXXXXXX

PLANNER: MADDEN

TITLE: Second Deck Support System For X-Band

SCOPE: Add the following to paragraph E.1 modify the work scope required by B.1.c as follows. Relocate the center of the new access archway between the ADP Room (2-134-2-Q) and the new office (2-160-2-Q) from 15'-11" off centerline to 17'-7" off center line. Delete the requirement to relocate secure power panel 2-160-6.

Add the following to paragraph E.2.
Modify the work scope required by B.1.b as follows. Relocate the center of the new access archway between the ADP Room (2-134-2-Q) and the new office (2-160-2-Q) from 15'-11" off centerline to 17'-7" off centerline.

Reason For Change: Necessary to avoid large structural interference.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ <200.00>

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/20/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 4/20/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	161

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 1706 B

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Current Limiting Fuses and Reactors

SCOPE: In Paragraph E.4.(b) Change to read as follows:

"Replace the existing class T400 current limiting fuses with tron class T100".

NOTE: The above substitution is made on the basis that fuses purchased as the described preference in the specification cannot be physically accomodated due to their size.

The contractor is directed to turn over both the limitron KTN 100 and the tron T400 fuses to the chief engineer.

Reason For Change: The limitron KTN 100 fuses called out in the specification proved to be too large to be installed in the same locations as the fuses being replaced.

XX Above work will be completed by current Job Order completion date of 06 July 1984

☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 923.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/24/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Steele Date 4/25/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 2F	133

COAR NO: [ ]

ITEM NO: 1703 F

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: SSTG Power and Control Cabling.

SCOPE: Reduce scope of Item by deleting following statement which was added by Change Order 022:

"Install one (1) GFE temperature monitoring panel, etc.

Increase scope by adding the following statement:

Supply [redacted] (1) temperature monitoring panel in the E.O.S. power shall be taken from local emergency power source.

Reason For Change: G.F.E. could not be utilized due to obsolescence.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 6854-

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/20/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 4/20/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QF	159

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1502 A

PCN: XXXXXXXX

PLANNER: Diel

TITLE: Structural Ripouts/Installations

SCOPE: Add The Following To E.2.

f. After reinstallation of temporary shipping access plating in accordance with reference B.1.f., supply and install two (2) standard manhole compensation rings, covers, gaskets and bolting in way of access openings cut out during cleaning.

Reason For Change: To provide cleaning access at 20' 10" level.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3141

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/23/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/24/84

NWMAR130128

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2[illegible])

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	146

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1205 A

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Entertainment Equipment Relocation/Installation

SCOPE: Delete paragraph 1205 E.4.c on page 1205-3 and substitute the following paragraph 1205 E.4.c:

"Install one run RG-214 and one run RG-216 coaxial cable from the double width cabinet to the Communication Tech Control Center (02-82-0-C). The approximate cable length is 340 feet. These runs may be run with one splice per cable. An exceptable splice/connection is to be made with a bullet connection mated to connectors at both ends. The location of the splice is to be made in an area that is easily accessable and approved by COMSC ConRep. The connection location is to be labeled on applicable drawings."

Reason: Specification error and in response to ~~Condition Report~~ #405.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 2534.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 4/23/84 (Date)

CONTRACTOR _____ CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature	Date	SUPERVISOR SHIP SURVEYOR Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix [illegible] Date 4/24/84

NWMAR130129

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	140

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 502 B

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Power System, Main SW. BD. Feeders.

SCOPE: Provide Material As Listed Below:

a) Substitute a 40 AMP breaker for the 50 AMP Breaker shown on Dwg 5985242 (panel 8-4) circuit P65.

b) Show change on as built drawing.

c) Turn 50 AMP Breaker over to Chief Engineer.

Reason For Change: USCG did not approve drawing as submitted.

RE C.R. 395

[x] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 1794.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/20/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/20/84

NWMAR130130

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 QF	111

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 1626

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Air Ejector Valves

SCOPE: Provide labor, material, and equipment required to install two (2) 4", 150 lb, flanged, iron body bronze trim, gate valves in the vapor suction piping near the ejector nozzle inlets. (Total of six (6) provide required flanges in piping.

Reason For Change: Not provided in original specifications.

☐ Above work will be completed by current Job Order completion date of 06 July 1984
☒ Above work will require Job Order completion date extension to

TOTAL PRICE $ 4515.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/19/84 (Date)

CONTRACTOR CONTRACT NO. N00033-79-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/20/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2E	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10. Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,658.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 803A (114), 2520A (145), 2535A (117), 2544A (105), 2555B (118)

2. The Job Order Price is increased by $21,658.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
5-14-84

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130132

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO. 2E	2. EFFECTIVE DATE 84APR12	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10.	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,658.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 803A (114), 2520A (145), 2535A (117), 2544A (105), 2555B (118)

2. The Job Order Price is increased by $21,658.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR	17. UNITED STATES OF AMERICA
BY Donald Nugent (Signature of person authorized to sign)	BY _____ (Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-14-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130133

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	114

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 803 A

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: Tacan Relocation

SCOPE: Correct the cable lengths shown on Page 803-3 paragraph E.4.(a) to read the following:

1 ea 290 ft. length of TTSU-1½ cable
290 ft. length of 2SWAU - 19 cable
290 ft. length of 2SWU - 7 cable
290 ft. length of LDF 5-50 cable

Reason For Change C.R. No. 358

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3614.22

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/14/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature Date

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-J0-0012F	145

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2520 A

PCN: XXXXXX

PLANNER: CRONCE

TITLE: Overhaul Demineralized Water Pumps Nos. 1, 2 & 3

SCOPE: 1. Fabricate and install two suction piping supports.

(a) Break flanges prior to installation, making sure pump is not stressed

(b) Make up flanges

(c) Prime and paint

In response to C.R. 451

Reason for change: not in specifications

[X] Above work will be completed by current Job Order completion date of 06 JULY 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 3350 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/12/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/13/84

NWMAR130135

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND (T-AGM 23)	N00033-84-JO-001	117

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 2535 A

PCN: XXXXXXX

PLANNER: CRONCE

TITLE: Indicating Alarm Panel

SCOPE: A. Alarm Panel; Activation.

1. Reconnect F.O. Tank alarms to panel

   (a) Using Approx. ten (10) feet, M-10 cable reconnect remote panels to respective Junction Boxes.

2. Reconnect L.O. tank high level alarm using new DSGA-4 cable.

3. Reconnect main turbine low L.O. pressure alarm using new DSGA-4 cable.

In Response to C.R. 371

Reason For Change: Not covered in specifications.

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 2800 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/12/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR Signature Date

SUPERVISOR SHIP SURVEYOR Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/13/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND (T-AGM-23)	N00033-84-JO-001	105

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2544 A

PCN: XXXXXXX

PLANNER: CRONCE

TITLE: Anchor Windless Survey

SCOPE: A. Clean sump, remove flaking & deteriorated paint.

1. Mechanically clean using wire brush, scrapers, & clean lint free rags.

2. Wash out with approved cleaning fluid, by hand.

In Response to C.R. 302 & 346

Reason For Change: Not included in original specification.

[X] Above work will be completed by current Job Order completion date of 6 July 84
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 4954 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/14/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 4/13/84

NWMAR130137

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	118

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2555 B

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Annual Inspection of Lifeboats.

SCOPE: No. 1,2,3 and 4 Lifeboat Repairs

A. No. 1. Lifeboat

1. Replace with new one (1) grab bar portside 24"x1".
2. Replace with new (1) grab bar bracket portside.
3. Straighten lower grab bar stbd side.

B. No. 2. Lifeboat

1. Straighten one (1) grab bar portside, aft.
2. Install GFM, stainless steel and wooden flotation device grab ropes.
3. Replace with new four (4) brass rings for grab ropes.
4. Rip-out rubber rub rail and replace with new.
5. Repair fiberglass area 2"x6" stbd side forward hull, cut-out and replace with new.

C. No. 3. Lifeboat

1. Rip-out rubber rub rail and replace with new.
2. Install GFM, stainless steel and wooden flotation device

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 6940.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/13/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-J0-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A Dir Stephen Date 4/13/84

grab ropes port & stbd sides.

D. No. 4. Lifeboat

1. Repair fiberglass area 8"x8" bilge area midships, Portside cut out and replace with new.
2. Replace with new rubber rub rail.
3. Install GFM stainless steel and wooden flotation device grab ropes port and stbd sides.

E. Compressed Air Cylinders (12)

1. Exchange for full, certified bottles (12).

F. Temporarily remove air regulators, three (3) in each boat, a total of twelve (12), and calibrate.

(a) Reinstall and prove tight.

In Response to C.R. 356

Reason For Change: Not covered in Specifications.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2D	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

[ ] The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers [ ] is extended, [ ] is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$23,376.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) [ ] The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12

(c) [XX] This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1204A (085), 1624A (129), 2509A (119), 2602B (122)

2. The Job Order Price is increased by $23,376.00.

3. The Completion Date of the T-AGM-23 is unchanged.

DUPLICATE ORIGINAL

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. [ ] CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT [XX] CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-14-84	R. W. BEIL	21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130140

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2D	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN,
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)
Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____
DATED _____ (See block 9)
☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$23,376.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of The Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. Pursuant to the Changes Clause of the above-numbered Contract, the Job Order Specifications are changed as specified in the attached specification item(s) numbered: 1204A (085), 1624A (129), 2509A (119), 2602B (122)

2. The Job Order Price is increased by $23,376.00.

3. The Completion Date of the T-AGM-23 is unchanged.

4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification and any other modifications or change orders indicated above including all claims for delays and disruptions resulting from, caused by, or incident to such modifications or change orders.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-14-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 4-76)

NWMAR130141

PRICE PROPOSAL
13ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001	085

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 1204 A

PCN: XXXXXXXX

PLANNER: CRAIG

TITLE: Communications Room Door Modifications

SCOPE: Reduce the scope of work as revised in specification attached as pages 2 and 3.

☒ Above work will be completed by current Job Order completion date of ~~06 July 1984~~
☐ Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1100.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Wright (Signature) Date 4/24/84

CONTRACTOR CONTRACT NO. ~~N00033-84-JO-001~~

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix. Stephen Date 4/24/84

NWMAR130142

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012	085

A. INTENT

The intent of this item is that the shipyard Contractor shall provide all labor and material to remove a door and install a new replacement door, and also to add a deadbolt with padlock to the remaining door in this space.

B. REFERENCES

1. MIL-STD-1680 (Ships)

C. GFE

None

D. REMOVALS

The Contractor shall temporarily remove the door and door frame between 02-87-2-C and 02-82-0-C.

E. SCOPE OF WORK

1. Arrangements/Outfitting

All work performed within the communications area shall comply with the requirements of MIL-STD-1680 (Ships).

A three position tumbler lock replacement door is to be purchased and installed between 02-87-2-C and 02-82-0-C where the previous door was removed. The Contractor shall repair all deck, bulkhead and overhead coverings in way of all new and disturbed areas to match existing color scheme.

The Contractor shall add a dead bolt with a padlock to the door between 02-87-2-C and 02-90-2-Q.

2. Structural

None

3. Mechanical/Fluid

None

4. Electrical

None

F. INTERFACES

None

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0012	085

G. PAINTING

The Contractor shall clean, prime and paint all new work and disturbed areas to match existing color scheme in accordance with Item 208.

H. MARKING/LABELING

None

I. TESTING

The proper operation of the door, door locks and alarm shall be demonstrated to the COMSC CONREP by the Contractor.

J. MANUFACTURER'S REPRESENTATIVE

None

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-00120	129

COAR NO: [ ][ ]—[ ][ ][ ]

ITEM NO: 1624 A

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: SSTG L.O. Pump Skids

SCOPE: Intent of change is to authorize incorporation of T-AGM 23-551-5985230 (2 sheets) and the work described thereon, which is to supply and install piping, valves, and controls associated with the air driven run down lube oil pumps on each of 3 lube oil skids.

Reason For Change: This work not described in original specifications.

RE: C.R. 432

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 10,621 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/23/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dir Stephen Date 4/24/84

NWMAR130145

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001 20	119

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2509 A

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Steering Engine Survey.

SCOPE: A. Overhaul two (2) Electro-Hydraulic Steering Pumps.

1. Temporarily remove No. 1 and No. 2 pump.
   (a) Disassemble and thoroughly clean all parts and inspect for wear, compared to Mfg. tect manual, and furnish the MSC CONREP with a report of findings.
   (b) Upon completion of examination reinstall using all new bearing, seals, gaskets and fasteners.

In Response to C.R. 315.

Reason For Change: Not covered in specifications.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 10,086 –

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E. Nugent (Signature) 4/12/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR
Signature Date

SUPERVISOR
SHIP SURVEYOR
Signature Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 4/13/84

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-0012	122

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2602 D

PCN: XXXXXXX

PLANNER: SANBORN

TITLE: No. 2 Dumbwaiter Extention

SCOPE: Install six new door limit switches that are compatible with electric system so as to shut system down when a door is opened or system will not energize when a door is open.

Reason: In responce to C.R. No. 321

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to _____

TOTAL PRICE $ 1569 00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/23/84 (Date)

CONTRACTOR

CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Sloan Date 4/24/84

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2C	84APR13		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,563.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to: _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2609 (051)
2. The Job Order Price is increased by $21,563.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY R. W. Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-14-84	R. W. BEIL	21 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130148

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2C	84APR13		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8.
☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in block 12. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offerors must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation, or as amended, by one of the following methods:

(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$21,563.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2609 (051)
2. The Job Order Price is increased by $21,563.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	5-14-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130149

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.
SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USNS OBSERVATION T-AGM 23	N00033-84-JO-001	051

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2609 New

PCN: XXXXXXXX

PLANNER: SANBORN

TITLE: CPO Mess Mod.

SCOPE: A. INTENT

The intent of this Item is to describe the tasks required to modify the existing Crews Mess area 2-82-0-L to incorporate a CPO Mess area on the starboard side between Frs. 82 and 94 1/2.

B. REFERENCES

1. The following sketch is applicable:
   (a) CPO Mess MOD. in Crews Mess 2-82-0-L

2. The following Specification Items are applicable to this Item:

   (a) 202 Access and Maintanance Requirements
   (b) 203 Materials and Workmanship
   (c) 204 Structure and Foundations
   (d) 205 Welding
   (e) 206 Deck Coverings
   (f) 207 Insulation and Lagging
   (g) 208 Painting
   (h) 209 Joiner Work

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 21,563.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald E Nugent (Signature) 4/14/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Glaster Date 4/13/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	051

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None.

D. REMOVALS

1. The Contractor shall neatly remove the first table from BHD 82 in the most outboard row of tables in Crew's Mess area 2-82-0-L. Table shall be turned over to ship's crew.

2. Temporarily remove overhead false ceiling panels in way of new bulkhead installation.

3. Temporarily remove ventilation overhead supply diffuser in way of new bulkhead installation.

E. SCOPE OF WORK

1. Arrangements/Outfitting

(a) The Contractor shall install a 5/8" marinite bulkhead the full length of space 2-82-0-L and a sliding joiner door (opening forward) as shown on reference B.1.
(b) Install a Foster, Model NCH-2, refrigerator or equal as shown on reference B.1.
(c) Install a stainless steel 24"x60" sideboard George Karr Co. Model #104 or equal as shown on reference B.1.

2. Electrical

(a) Install a 115 volt, 60 cycle, 1 phase power source to the refrigerator.
(b) Install two 115 volt, 60 cycle, 1 phase, two plug convenience boxes over the sideboard.

3. Miscellaneous

(a) Install tile to match existing for all disturbed areas.
(b) Modify the supply duct to supply a portion of the air into the new CPO Mess and reinstall overhead supply diffuser in the Crew Mess side of the new marinite bulkhead.

F. INTERFACES

None.

G. PAINTING

(a) All new and disturbed areas shall be painted to match surrounding areas in accordance with reference B.2.g.

H. MARKING/LABELING

Nameplates, notices and markings shall be installed in accordance with Reference B.2.j.

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-001	051

I. TESTING

All tests shall be accomplished in accordance with Reference B.2.1.

J. MANUFACTURER'S REPRESENTATIVE

None.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2B	84APR16		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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(a) By signing and returning _____ copies of this amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKOWLEDGMENT TO BE RECEIVED AT THE ISSUING OFFICE PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If, by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided such telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$54,235.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) ☐ This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

(b) ☐ The above numbered contract/order is modified to reflect the administrative changes (, as changes in paying office, appropriation data, etc.) set forth in block 12.

(c) ☒ This Supplemental Agreement is entered into pursuant to authority of Changes Clause

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2619 (091)
2. The Job Order Price is increased by $54,235.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

DUPLICATE ORIGINAL

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-27-84

18. NAME OF CONTRACTING OFFICER (Type or print)
R. W. BEIL

19. DATE SIGNED
02 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130153

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2B	84APR16		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. ☐ AMENDMENT OF SOLICITATION NO. _____

DATED _____ (See block 9)

☒ MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001

DATED 830CT06 (See block 11)

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$54,235.00

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14. NAME OF CONTRACTOR/OFFEROR

BY Donald E Nugent
(Signature of person authorized to sign)

15. NAME AND TITLE OF SIGNER (Type or print)
Donald E. Nugent
Project Manager

16. DATE SIGNED
4-27-84

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

18. NAME OF CONTRACTING OFFICER (Type or print)

19. DATE SIGNED

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130154

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP USS	JOB ORDER NO.	SERIAL NO.
USN OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 23	091

COAR NO: [ ][ ]-[ ][ ][ ]

ITEM NO: 2619 New

PCN: XXXXXXXX

PLANNER: DIEL

TITLE: Air Conditioning System Repairs

SCOPE: Provide labor, material, and equipment to make repairs to the following air conditioning equipment:
Six (6) York Corp. direct expansion freon 12 multi-cylinder, single acting compressors rated at 50 tons -11 & 15°F suction temperature. Two (2) York Corp. direct expansion freon 12 multi-cylinder single acting compressors rated at 25 tons. One (1) carrier model 5MH86-139-1 compressor rated at 50 tons, and in addition the associated components such as receivers, condensers, controls, etc. as listed below.

1. Pump down each unit and transfer refrigerant to storage containers supplied by Contractor.

2. Open and clean the receiver sight glasses and level indicators of each unit. Close up using new seal material and replacing any missing or damaged fastenings.

3. Open and clean all condenser salt water sides. Renew all zinc anodes. Close up in good order using new seal material and replacing any missing or damaged fastenings.

4. Renew all filter/dryer elements.

5. Remove all compressor service suction and discharge valves.

[X] Above work will be completed by current Job Order completion date of 06 July 1984
[ ] Above work will require Job Order completion date extension to

TOTAL PRICE $ 54,235.00

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/12/84 (Date)

CONTRACTOR CONTRACT NO. N00033-70-C-0075

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephen Date 4/13/84

Quote on:

a) Renewal of valves with equivalent on a per valve basis, and

b) Repair of valves on a per valve basis.

Reinstall renewed or repaired valves using new seal material and replacing any missing or damaged fastenings.

6. Remove all pressure and temperature gauges, calibrate same. Label each gauge face with date and name of shop calibrating gauges. (Do not place data label to exterior of gauge).

7. Survey controls, valves, solenoids, etc., and quote repairs or renewals required to render same into full operational status based on any equipment not being economically repairable being replaced by equivalent new.

8. Remove crankcase lubricant and replenish with newwContractor supplied lubricant. Lubricant must be approved by CONREP.

9. Replace all faulty and/or temporarily installed externally mounted crankcase heaters. Repair and/or replace wiring as required to these heaters. Use maker approved spares.

10. Quote on the provision of condenser relief valve vent overboard piping I.A.W. US Coast Guard requirements. Quote to include modification of existing relief valve piping.

11. Evacuate each assembled and ready to operate compressor. Re-charge systems to correct levels. Test operate systems to demonstrate repairs and to permit adjust of control settings, artificially creating heat load if required. Demonstrate tightness of all connections and valves. All tests and demonstrations to be proposed to CONREP for approval prior to making same, and actual tests and trials to be witnessed by CONREP/ships staff. Provide a separate report to CONREP stating work done, repairs made, renewals made including description of parts and components supplied, and a record of operating conditions and parameters found during tests and trials.

12. Make repairs to damaged tubing, piping and supports in Comp 4-134-1 where a stored electric motor came adrift at sea.

13. Renew compressor shaft seals found to be leaking in a prior condition survey. Deal with six machines.

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2A	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

6. ADMINISTERED BY (If other than block 5) CODE

7. CONTRACTOR NAME AND ADDRESS CODE FACILITY CODE

(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

8. [ ] AMENDMENT OF SOLICITATION NO. _____,
DATED _____ (See block 9)

[XX] MODIFICATION OF CONTRACT/ORDER NO. N00033-84-J0-001
DATED 830CT06 (See block 11)

9. THIS BLOCK APPLIES ONLY TO AMENDMENTS OF SOLICITATIONS

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10	Appropriation and Subhead	Obj. Cl.	Bureau Cont. No.	Sub-Allot.	Authorization Acct'g Act'y	Trans. Type	Property Acct'g Act'y	Country	Cost Code	Amount
	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,590.00

11. THIS BLOCK APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS

(a) [ ] This Change Order is issued pursuant to _____

The Changes set forth in block 12 are made to the above numbered contract/order.

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(c) [XX] This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2629 (123)
2. The Job Order Price is increased by $9,590.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

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14. NAME OF CONTRACTOR/OFFEROR
BY Donald E Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA
BY R W Beil
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-24-84	R. W. BEIL	01 MAY 1984

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130157

STANDARD FORM 30, JULY 1966
GENERAL SERVICES ADMINISTRATION
FED. PROC. REG. (41 CFR) 1-16.101

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

PAGE 1 OF 1

1. AMENDMENT/MODIFICATION NO.	2. EFFECTIVE DATE	3. REQUISITION/PURCHASE REQUEST NO.	4. PROJECT NO. (If applicable)
2A	84APR12		

5. ISSUED BY CODE

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, 13th Naval District
Seattle, Washington 98115

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(Street, city, county, state, and ZIP Code)

Northwest Marine Iron Works
2516 N.W. 29th Avenue
Portland, Oregon 97208

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	AA17X4912.3302 N62387-84-RC-05690	000	77777	0	62387	2F	000000		3952XBAN5189	$9,590.00

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(c) ☒ This Supplemental Agreement is entered into pursuant to authority of 10 U.S.C. 2304 (a) (1b)

It modifies the above numbered contract as set forth in block 12.

12. DESCRIPTION OF AMENDMENT/MODIFICATION

USNS OBSERVATION ISLAND (T-AGM-23)

1. It is hereby agreed that the above-numbered Job Order is modified to increase the scope of work by the addition of the attached specification item(s) numbered: 2629 (123)
2. The Job Order Price is increased by $9,590.00.
3. The Completion Date of the T-AGM-23 is unchanged.
4. The change in delivery dates or price described above is considered to be fair and reasonable and has been mutually agreed upon in full and final settlement of all claims arising out of this modification including all claims for delays and disruptions resulting from, caused by, or incident to such modifications.

Except as provided herein, all terms and conditions of the document referenced in block 8, as heretofore changed, remain unchanged and in full force and effect.

13. ☐ CONTRACTOR/OFFEROR IS NOT REQUIRED TO SIGN THIS DOCUMENT ☒ CONTRACTOR/OFFEROR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN 2 COPIES TO ISSUING OFFICE

14. NAME OF CONTRACTOR/OFFEROR

BY Donald E. Nugent
(Signature of person authorized to sign)

17. UNITED STATES OF AMERICA

BY _____
(Signature of Contracting Officer)

15. NAME AND TITLE OF SIGNER (Type or print)	16. DATE SIGNED	18. NAME OF CONTRACTING OFFICER (Type or print)	19. DATE SIGNED
Donald E. Nugent Project Manager	4-24-84		

30-101 Modified SUPSHIP 13 OP #1 (Rev. 8-70)

NWMAR130158

PRICE PROPOSAL
13 ND SUPSHIP SEATTLE 4265/1 (REV. 2-81)

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN.

SEATTLE, WASHINGTON 98115

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-JO-001 2A	123

COAR NO: [ ][ ]–[ ][ ][ ]

ITEM NO: 2629 New

PCN: XXXXXXXX

PLANNER: CRONCE

TITLE: Feed Water Manifold; Repair.

SCOPE: A. INTENT

It is the intent of this item that the Contractor provide all labor and material necessary to rebuild the main feed water manifold foundation.

B. REFERENCES

The following Specification Items are applicable to this Item:

(a) 201 Regulatory Bodies, Standards and Certificates
(b) 202 Access and Maintenance Requirements
(c) 203 Materials and Workmanship
(d) 204 Structure and Foundations
(e) 205 Welding
(f) 208 Painting
(g) 210 Hull Piping
(h) 211 Pressure Piping
(i) 214 Testing
(j) 215 Nameplates, Notices and Markings
(k) 217 General Provisions for Removals

☒ Above work will be completed by current Job Order completion date of 06 July 1984
☐ Above work will require Job Order completion date extension to

TOTAL PRICE $ 9590

The undersigned agrees that the above-specified work will be accomplished at the price stated above, which includes cost of all delays and/or disruptions involved in this work and will be completed by the current Job Order completion date, unless otherwise specified above.

AUTHORIZED CONTRACTOR REPRESENTATIVE Donald Nugent (Signature) 4/12/84 (Date)

CONTRACTOR CONTRACT NO. N00033-84-JO-001

The undersigned certifies that the above job, as described, is correct and is necessary for the repair of the vessel.

SHIP SURVEYOR		SUPERVISOR SHIP SURVEYOR	
Signature	Date	Signature	Date

WORK SCOPE APPROVED - AUTHORIZED GOVERNMENT REPRESENTATIVE

Signature A. Dix Stephens Date 4/13/84

SHIP	JOB ORDER NO.	SERIAL NO.
USS USNS OBSERVATION ISLAND T-AGM 23	N00033-84-J0-0029	123

C. GOVERNMENT FURNISHED EQUIPMENT (GFE)

None

D. REMOVALS

1. Temporarily remove interferences necessary to perform work required by this work item.

E. SCOPE OF WORK

1. Arrangement/Outfitting
   (a) None

2. Structure
   (a) None

3. Mechanical
   (a) Remove feed manifold.
   (b) Blank all openings made by removals.
   (c) Sandblast to near-white finish.
   (d) Ultrasonic test feed water manifold twenty-five (25) shots, MSC will witness reading, submit a report to COMSC CONREP.
   (e) Replace deteriorated foundation.
   (f) Clean flanges made by removals.
   (g) Reinstall feed water manifold.
   (h) Paint manifold and foundation to match surrounding area.
   (i) Hydrostatically test feed water manifold to 750 PSIG to prove joints tight.

In Response To C.R. 209.

Reason For Change: Not Covered in Specifications.

COPY TO: J.C. McMURRY
D.E. NUGENT
D.K. BECKWITH
B. DUMONTE
W. McKENNY

DEPARTMENT OF THE NAVY

SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
4700
Ser 412-1594
15 MAR 1984

From: Supervisor of Shipbuilding, Conversion, and Repair, USN, Seattle
To: Northwest Marine Iron Works, Portland

Subj: USNS OBSERVATION ISLAND (T-AGM 23), Contract N00033-70-C-0075, Billing Rate

Ref: (a) NMIW Portland ltr Ser 2330-20 of 14 Nov 1983

1. Contractor's proposed, forward pricing billing rates transmitted by reference (a), have been audited and administratively reviewed. The following are the approved rates for the subject project.

	Straight Time	Overtime
Direct Labor	$14.45	$28.90
Overhead/G&A	18.70	37.40
TOTAL	$33.15	$66.30

2. The above rates are inclusive of all costs, except for profit.

R W Beil
R. W. BEIL
By direction

Copy to:
MSC-CONREP-Portland, OR
DCAA Sea Br Off Seattle
(Audit No. 7261-7627.17 4P179022 of 12 Jan 1984)

RECEIVED
MAR 19 1984
MARINE
DIVISION

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

November 14, 1983
Serial No. 2330-20

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Original had been issued to James Winston

Attention: Mr. Ron Beil

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Current Billing Rates

Gentlemen:

The following breakdowns are in reference to the billing rates proposed to you on November 1, 1983 in our letter number 2330-08.

	Straight Time	Overtime
Direct Labor	$ 14.45	$ 28.90
Overhead/G & A	18.70	37.40
	$ 33.15	$ 66.30

Very truly yours,

Bruce A. Dummer

Bruce A. Dummer
Controller

BAD/jmw

cc: G. Tuckey
W. McCauley

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

November 14, 1983
Serial No. 2330-20

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Mr. James Winston

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Current Billing Rates

Gentlemen:

The following breakdowns are in reference to the billing rates proposed to you on November 1, 1983 in our letter number 2330-08.

	Straight Time	Overtime
Direct Labor	$ 14.45	$ 28.90
Overhead/G & A	18.70	37.40
	$ 33.15	$ 66.30

Very truly yours,

Bruce A. Dummer

Bruce A. Dummer
Controller

BAD/jmw

cc: G. Tuckey
W. McCauley

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

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PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

November 1, 1983
Serial No. 2330-08

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, Washington 98115

Attention: Mr. James Winston

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Current Billing Rates

Gentlemen:

We propose the following composite billing rates effective October 6, 1983.

Straight Time	Overtime
$33.15	$66.30

The rates are calculated to apply to all direct labor as specified in our disclosed accounting practices. The rates are inclusive of all costs except profit.

Very truly yours,

Bruce A. Dummer

Bruce A. Dummer
Controller

BAD/sw

cc: G. Tuckey, NMIW
W. J. McCauley, NMIW

EXAMPLE

USNS OBSERVATION ISLAND (T-AGM 23) CHANGE ORDER

BASED UPON BILLING RATES PROPOSED NOVEMBER 1, 1983

A USNS OBSERVATION ISLAND change order is being negotiated. It is estimated that the work involves 200 hours of direct labor, with 15 of the hours at overtime. Direct labor includes Marine hourly Crafts 1 thru 18 (including non-working supervision and QA), Shop hourly Crafts 30 thru 35, and Marine salary Crafts 21, 23 and 25. There is $250.00 of estimated material cost and $2,200.00 of estimated subcontractor cost.

	HRS	RATE	AMOUNT
LABOR - Straight Time	185	$33.15	$ 6,132.75
Overtime	15	$66.30	994.50
	200		$ 7,127.25
MATERIALS			$ 250.00
SUBCONTRACTORS			$ 2,200.00
TOTAL COST WITHOUT PROFIT			$ 9,577.25
PROFIT - 10%			$ 957.73
TOTAL PRICE			$10,534.98

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MEMO TO: Bruce Dummer

FROM: W. J. McCauley DATE: October 15, 1983

SUBJECT: Manning Level Forecast for OBSERVATION ISLAND Contract Period.

For cash flow and manning purposes consider value of all closed contracts for the last three fiscal years.

YEAR	AVERAGES
6/79 - 5/80	$2,799,943.00
6/80 - 5/81	$5,231,638.00
6/81 - 5/82	$7,648,878.00*

Consider 70%** of business in worst year 6/79 - 5/80.

$2,799,943.00 x .70 = $1,959,960.00/mo.

Approx. 50% of dollar value is direct labor cost.

$1,959,960.00 x .50 - $979,980.00/mo.

79/80 average billing rate - $27.00/hr.

$979,980.00/mo. divided by $27.00/hr = 36,295 hrs

36,295 hrs divided by 161 hr/man/mo = 225 men/day

Average number of men/day for OBSERVATION ISLAND is 198/M/D (excludes subcontractors and POP)

Expected immediate added work is 7%

198 x 1.07 = 212 M/D

Total Manning is - OBSERVATION ISLAND = 212 M/D
Other Work = 225 M/D
TOTAL = 437 M/D

* This figure does not include USS HENRY B. WILSON and USS MONTICELLO.

** Considerations for 70% as a conservative estimate.
(a) 3rd Quarter of 1983 calendar year shows 81% of vessels being bid compared with 3rd Quarter of 1980 but 35% more than bid in 3rd Quarter of 1982.
(b) Work other than bid work in 1979-80 was 10% of total work. This work load has remained fairly consistent in total value.
(c) Value of present work is slightly less than in 1979-80.

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
SEATTLE, WASHINGTON 98115

IN REPLY REFER TO:
7000
Ser 410-7882

From: Supervisor of Shipbuilding, Conversion, and Repair, USN, Seattle
To: Northwest Marine Iron Works, Portland

Subj: Master Ship Repair Contract N62799-70-C-0013; Revised Billing Rate

Ref: (a) NWMIW ltr of 29 Aug 1980

1. Revised billing rates proposed by reference (a), have been audited and are approved as follows, effective immediately.

	Straight Time	Overtime
Direct Labor	$11.59	$23.18
Overhead	$ 9.57	$ 9.57
G&A	$ 1.68	$ 1.68
Subtotal	$22.84	$34.43
Non Working Supervison and Quality Assurance	$ 3.38	$ 5.10
Total	$26.22	$39.53 ≈ 5%

2. Above rates are inclusive of all costs except profit, which shall be considered on a case basis.

3. Application of above rates shall be on the basis of direct production labor hours, excluding leadmen, foremen and quality assurance. Cost incident to the latter is recovered via the allowance for Non-Working Supervison and Q.A.

R. R. Morrison

R. R. MORRISON
By direction

Copy to:
DCAA Pug So Br Off Sea (Audit No. 7261-1P230002-001)
NSC PAC NSC Oakland
MSC Seattle

RECEIVED
NOV 7 1980
MARINE
DIVISION

Initials	Date
Prepared By	
Approved By	

Wage Rates

	Marine	Shop
Sept, 1983	— ✓	12.74
Aug	— ✓	11.67 ✓
July	14.18	11.41 ✓
June	14.35	10.96 ✓
May	14.61	10.69 ✓
April	14.47	13.26
March	14.50	13.06
February	14.53	13.16
Fiscal 1984 Budget	14.50	12.90
Say	14.50	12.90

✓ During strike

4907 BUFF · 8907 GREEN · 4207 WHITE

NWMAR130168

USNS OBSERVATION ISLAND

Billing Rate Summary

	Initials	Date
Prepared By		
Approved By		

	Bid Hours			
Shop - Direct Labor			12.90	.10
Overhead / G+A			36.81	.30
	1640	.8 %	49.71	.40
Marine - Direct Labor			14.46	14.35
Overhead / G+A			18.55	18.40
	196727	99.2 %	33.01	32.75
	198367	100.0 %		33.15

4907 BUFF - 8907 GREEN - 4207 WHITE

NWMAR130169

PER RON BELL: 12/21/84 TUCSON

DID NOT HAVE NEW RATES FOR 32.40 - HE EXPLAINED THAT IT DIDN'T MATTER, JUST WANTED BACK UP FOR P/R TAX AREA & SAID TO GIVE HIM AMTS TO SUPPORT 33.15.

GAVE HIM THE FOLLOWING:

DIR LABOR	$ 14.46	
P/R TAX	6.18	
G & A	7.14	EXPLAINED THAT
OH 5.23+.14 SHOP	5.37	DIDN'T RELATE
	33.15	TO ALT NOW.

Marine Division
430 men

	Initials	Date
Prepared By		
Approved By		

Direct Wage	(74,533	@	14.50)		1080728			per Hr
23	(1,632	@	14.57)		23778			
25	(380	@	6.37)		2421			
	76,545					1106927		14.46
Payroll Taxes						472742		6.18
Production Overhead						400673		5.23
Sales Expense						15586		.20
Administrative Expense						123606		1.61
Other Expense						<1500>	4.04	.02
Home Office Expense						169515		2.21
Usage Charges *						99710	3.10	1.30
Cost of Facilities Capital *						139358		1.80
						2526617		
Hours						76545		
						$ 33.01		33.01

* Per Fiscal 1983 Navy accounting

4907 BUFF · 8907 GREEN · 4207 WHITE

NWMAR130171

NORTHWEST MARINE IRON WORKS
MARINE DIVISION
PAYROLL TAX AND OVERHEAD EXPENSE DETAIL

MONTH SEPTEMBER — FISCAL YEAR 1984 / 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
P/R TAXES							
HOLIDAY PAY	51,562	54,063	96	66,243	16,561	32,370 ✓ 39,000	.42 99.8
VACATION PAY	58,782	66,253	0	76,648	19,162	41,002 ✓ 49,400	.54 100.0
WORKMENS COMP	116,394	234,456	(2,286)	354,108	88,527	108,073 ✓ 111,700	1.41 102.0
STATE UNEMPLOYMENT	39,604	24,032	0	50,798	12,700	24,817 ✓ 29,900	.32 100.0
FEDERAL UNEMPLOYMENT	5,370	3,287	0	7,201	1,800	3,237 ✓ 3,900	.04 100.0
FICA TAXES	115,823	94,537	0	136,747	34,187	67,977 ✓ 81,900	.89 100.0
HEALTH AND WELFARE	121,278	111,042	0	134,629	33,657	101,496 ✓ 90,900	1.33 100.0
UNION PENSIONS AND BENEFITS	155,976	123,809	0	157,270	39,318	87,316 ✓ 105,200	1.14 100.0
TRI MET TAX	11,328	9,212	0	12,294	3,074	6,474 ✓ 7,800	.09 100.0
TOTAL P/R TAX ON DIRECT LABOR	676,117	720,691	(2,190)	995,938	248,985	519,700	100.4
% OF DIRECT LABOR	35.800 %	46.900 %	43,800.000 %	48.638 %	48.638 %	40.002 %	(109,395.8)%
OVERHEAD							
PRODUCTION SALARIES	0	107,686	52,802	277,323	69,331	76,300 ✓	30.8
Q A & TESTING SALARIES	0	12,661	0 ✓	6,178	1,545	6,400	100.0
SEVERANCE PAY	0	5,862	0	9,955	2,489	0 ✓	N/A
CRAFT WAGES	89,732	80,559	1,256	87,178	21,795	24,900 ✓ 30,000	95.8
P/R TAXES AND BENEFITS	72,530	78,447	5,360	121,183	30,296	50,670 ✓ 52,200	89.7
MAINTENANCE/MATERIALS	51,440	36,766	2,390	43,590	10,898	20,750 ✓ 25,000	90.4
SMALL TOOLS	59,325	36,918	62	29,799	7,450	29,050 ✓ 35,000	99.8
RENT	36,747	30,730	27,225	119,413	29,853	29,000 ✓	6.1
VEHICLE EXPENSE	7,147	8,427	5,359	17,770	4,443	9,000 ✓	40.5
UTILITIES	15,805	11,388	3,634	18,774	4,694	16,000 ✓	77.3
TRAVEL AND BUSINESS MEETINGS	172	764	58	839	210	1,000 ✓	94.2
BIN STOCK	0	7,813	0	6,727	1,682	3,320 ✓ 4,000	100.0
DEPRECIATION	43,384	72,257	70,886	280,532	70,133	73,000 ✓	2.9
PORT OF PORTLAND USER FEE	7,686	66,746	1,195	40,844	10,211	0 ✓ 54,000	97.8
INSURANCE	24,929	32,108	25,618	112,674	28,169	33,000 ✓	22.4
OUTSIDE LABOR AND SERVICES	0	1,200	0	0	0	2,000 ✓	100.0
SAFETY	2,030	8,877	1,437	12,777	3,194	10,000 ✓	85.6
GROUP INSURANCE	15,338	11,652	5,837	29,827	7,457	12,000 ✓	51.4
TAXES AND LICENSES	6,498	23,325	10,681	40,650	10,163	10,000 ✓	(6.8)
EDUCATION AND TRAINING	1,136	944	0	1,050	263	300 ✓	100.0
MISCELLANEOUS	7,007	7,739	351	1,533	383 ✓	5,000	93.0
TOTAL OVERHEAD EXPENSES	680,768	642,869	214,151	1,258,616	314,654	483,200	55.7
% OF DIRECT LABOR	36.100 %	41.900 %	(4,283,020.000)%	61.466 %	61.466 %	37.192 %	11,516,034.6 %

472,742

400,673

NWMAR130172

NORTHWEST MARINE IRON WORKS
MARINE DIVISION
PAYROLL TAX AND OVERHEAD EXPENSE SUMMARY

MONTH SEPTEMBER — FISCAL YEAR 1984 / 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
TOTAL P/R TAX AND OVERHEAD	1,356,885	1,363,560	211,961	2,254,554	563,639	1,002,900	78.9
SALES EXPENSE	17,075	26,162	10,507	39,712	9,928	16,200	35.1
ADMINISTRATIVE EXPENSE	52,617	239,521	292,560	1,083,995	270,999	211,500	(38.3)
OTHER INCOME (EXPENSE)	54,402	(57,923)	(155,937)	(503,211)	(125,803)	(58,100)	(168.4)
TOTAL COMBINED OVERHEAD	1,372,175	1,687,166	670,965	3,881,472	970,368	1,288,700	47.9
% OF DIRECT LABOR	72.700 %	109.900 %	(13,419,300.000)%	189.557 %	189.557 %	99.192 %	13,528,737.0 %
DIRECT LABOR - SHIP	1,916,281	1,587,713	(5)	2,047,771	511,943	1,319,300	100.0
DIRECT LABOR - DASH-1	(28,369)	(52,396)	0	(112)	(28)	(20,100)	100.0
DIRECT LABOR (DOLLARS)	1,887,912	1,535,317	(5)	2,047,659	511,915	1,299,200	100.0
TOTAL COMB O/H PLUS LABOR	3,260,087	3,222,483	670,960	5,929,131	1,482,283	2,587,900	74.1
DIRECT ST HOURS	103,161	92,546	0	109,053	27,263	0	100.0
DIRECT OT HOURS	18,719	7,489	0	17,005	4,251	0	N/A
TOTAL DL HOURS (ST PLUS 2.OT)	140,599.0	107,524.0	.0	143,062.5	35,765.6	89,600.0	100.0
LOADED LABOR COST/HOUR	23.19	29.97	.00	41.44	41.44	28.88	100.0

NO PAYROLL TAX OR OVERHEAD WAS CHARGED
TO WORK IN PROGRESS IN SEPTEMBER, 1983.

PAYROLL TAXES TO WORK IN PROGRESS		997,973
PAYROLL TAXES TO COST OF SALES	(2,190)	(2,035)
	(2,190)	995,938
OVERHEAD TO WORK IN PROGRESS		638,169
OVERHEAD TO COST OF SALES	214,151	620,447
	214,151	1,258,616

NORTHWEST MARINE IRON WORKS
MARINE DIVISION
ADMINISTRATIVE EXPENSE

MONTH SEPTEMBER — FISCAL 1984 YEAR 1983

ADMINISTRATIVE EXPENSE	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
GENERAL & ADMIN SALARIES	0	28,031	18,469	73,958	18,490	① 19,100 ✓	3.3
CONTRACT ADMIN SALARIES	0	43,343	40,917	162,301	40,575	17,220 ✓ 41,000	2
PURCHASING SALARIES	0	12,462	7,240	35,924	8,981	7,200 ✓	(.6)
TECHNICAL DOCUMENTS SALARIES	0	7,394	2,809	14,673	3,668	① 1,247 ✓ 3,800	26.1
COMPUTER SALARIES	0	10,586	6,031	29,394	7,349 ✓	11,400	47.1
P/R TAXES AND WORK COMP	0	12,663	6,689	35,252	8,813 ✓	12,400	46.1
GROUP INSURANCE	0	9,516	7,565	31,308	7,827 ✓	8,000	5.4
OUTSIDE LABOR AND SERVICES	0	724	0	0	0	0	N/A
POSTAGE/OFFICE SUPPLIES	9,742	10,304	4,499	23,039	5,760	9,000 ✓	50.0
DUES AND SUBSCRIPTIONS	842	1,738	326	6,182	1,546	2,000 ✓	83.7
COMPUTER SERVICES & SUPPLIES	1,027	4,145	2,823	11,754	2,939	3,000 ✓	5.9
EDUCATION AND TRAINING	0	367	0	0	0	500 ✓	100.0
PROFESSIONAL SERVICES	14,662	12,785	13,747	47,590	11,898 ✓	15,000	8.4
RENT	0	456	3,978	11,086	2,772 ✓	700	(468.3)
TRAVEL AND BUSINESS MEETINGS	0	4,145	260	4,970	1,243	4,000 ✓	93.5
TELEPHONE	7,915	10,270	7,879	26,370	6,593	10,000 ✓	21.2
UTILITIES	0	1,306	1,979	7,833	1,958	1,500 ✓	(31.9)
DEPRECIATION	0	9,123	8,568	34,275	8,569	8,600 ✓	.4
AUTO EXPENSE	0	1,367	1,301	3,672	918 ✓	1,500	13.3
CONTRIBUTIONS	1,036	35	0	0	0	0	N/A
PROPERTY TAXES AND LICENSES	0	406	406	2,050	513 ✓	1,300	68.8
MISCELLANEOUS	0	2,171	74	594	149 ✓	1,500	95.1
SEVERANCE PAY	0	6,184	0	770	193	0 ✓	N/A
INTERCOMPANY B/C	52,617	50,000	157,000	521,000	130,250	50,000	(214.0)
ADMINISTRATIVE EXPENSE		239,521	292,560	1,083,995	270,999	211,500	(38.3)

123,606

① Breakdown of Estimated Costs

	Total	Indirect ②	Direct ②	
Contract Administration	41,000	17,220	23,780	(14.57 x 1,632)
Technical Documents	3,668	1,247	2,421	(6.37 x 380)

② Relationship based upon Fiscal 1983 results

NORTHWEST MARINE IRON WORKS
MARINE DIVISION
SALES EXPENSE DETAIL

MONTH SEPTEMBER — FISCAL 1984 YEAR 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
SALES EXPENSE							
SALES SALARIES	3,546	5,253	5,254	21,014	5,254 ✓	5,500	4.5
TRAVEL AND BUSINESS MEETINGS	7,690	3,727	2,187	6,897	1,724	5,000 ✓	56.3
P/R TAXES AND BENEFITS	556	1,020	917	3,983	996 ✓	1,100	16.6
SEVERANCE PAY	0	0	0	0	0	0	N/A
AUTO EXPENSE	115	484	406	1,266	317 ✓	500	18.8
ADVERTISING	2,559	4,630	1,743	6,478	1,620	4,000 ✓	56.4
BAD DEBTS EXPENSE	(21,054)	10,767	0	0	0	0	N/A
MISCELLANEOUS	90	281	0	74	19 ✓	100	100.0
SALES EXPENSE	17,075	26,162	10,507	39,712	9,928	16,200	35.1

15,586

NWMAR130175

NORTHWEST MARINE IRON WORKS
OTHER INCOME (EXPENSE) DETAIL

MONTH SEPTEMBER — FISCAL YEAR 1984 / 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
OTHER INC (EXP)							
RENTAL INCOME - BUILDINGS	2,707	314	276	1,103	276	300 ✓	(8.0)
GAIN (LOSS) ON SALE OF ASSETS	(189)	(2,098)	(14,429)	(13,783)	(3,446)	0 ✓	(**************)
INTEREST INCOME	30,245	85	0	0	0	0	(**************)
MISCELLANEOUS INCOME	1,980	20,197	226	1,354	339	1,000 ✓	(77.4)
PURCHASE DISCOUNTS	1,202	560	15	710	178	1,000 ✓	(98.5)
INTEREST EXPENSE	(57,489)	(51,812)	(104,253)	(413,442)	(103,361)	(102,000)	(2.2)
INTERCOMPANY INTEREST	14,079	(32,004)	(71,315)	(163,779)	(40,945)	33,000	316.1
MISCELLANEOUS EXPENSE	(6,804)	(335)	(735)	(2,869)	(717)	(2,000) ✓	63.2
AUTO BONUS	928	1,194	1,018	4,440	1,110	1,200 ✓	15.2
OTHER	73,788	0	0	0	0	0	N/A
OTHER INCOME (EXPENSE)	60,447	(63,899)	(189,197)	(586,266)	(146,567)	(67,500)	(180.3)

1,500

ALLOCATION TO DIVISIONS — ALLOCATION TO DIVISIONS

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
OTHER INCOME (EXPENSE) (ALLOCATION TO MARINE DIVISION)	54,402	(57,923)	(155,937)	(503,211)	(125,803)	(58,100)	(168.4)
OTHER INCOME (EXPENSE) (ALLOCATION TO SHOP DIVISION)	3,627	(7,591)	(18,636)	(66,610)	(16,653)	(10,100)	(84.5)
OTHER INCOME (EXPENSE) (ALLOCATION TO FABRICATION DIVISION)	2,418	1,615	(14,624)	(16,445)	(4,111)	700	2,189.1
OTHER INCOME (EXPENSE) (TOTAL)	60,447	(63,899)	(189,197)	(586,266)	(146,567)	(67,500)	(180.3)

Shop Division

	Initials	Date
Prepared By		
Approved By		

Direct Wage (at 12.90/hr)	69300
Payroll Taxes	24250
Production Overhead	82960
Sales Expense	8519
Administrative Expense	35880
Home Office Expense	14707
Usage Charges *	12242
Cost of Facilities Capital *	19300
	267158
Hours	÷ 5374
	$49.71

* Per Fiscal 1983 Navy accounting

NORTHWEST MARINE IRON WORKS
SHOP DIVISION
PAYROLL TAX AND OVERHEAD EXPENSE DETAIL

MONTH SEPTEMBER — FISCAL 1984 YEAR 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
P/R TAXES							
HOLIDAY PAY	4,447	3,537	2,394	6,521	1,630	3,460 ✓	30.8
VACATION PAY	5,010	3,747	1,688	4,800	1,200	3,460 ✓	51.2
WORKMENS COMP	1,847	2,684	1,546	3,706	927	2,070 ✓	25.3
STATE UNEMPLOYMENT	1,392	1,520	1,069	2,614	654	1,180 ✓	7.4
FEDERAL UNEMPLOYMENT	187	199	63	319	80	210 ✓	70.0
FICA TAXES	4,782	5,868	3,427	8,983	2,246	4,440 ✓	22.8
HEALTH AND WELFARE	8,100	7,505	1,837	7,856	1,964	5,540 ✓	66.8
UNION PENSIONS AND BENEFITS	3,556	4,247	2,490	8,140	2,035	3,470 ✓	28.2
TRI MET TAX	476	566	328	847	212	420 ✓	21.9
TOTAL P/R TAX ON DIRECT LABOR	29,797	29,873	14,842	43,786	10,947	24,250	38.8
% OF DIRECT LABOR	37.600 %	31.700 %	26.661 %	30.632 %	30.632 %	34.993 %	23.8 %
OVERHEAD							
PRODUCTION SALARIES	0	17,953	13,145 ✓	56,682	14,171	12,559	(4.7)
SEVERANCE PAY	0	4,790	0	0	0	0	N/A
CRAFT WAGES	23,290	12,840	9,196	27,106	6,777 ✓	6,500	(41.5)
P/R TAXES AND BENEFITS	12,297	4,990	3,311	10,861	2,715 ✓	3,800	12.9
MAINTENANCE/MATERIALS	10,453	11,575	6,274	43,059	10,765 ✓	5,500	(14.1)
SMALL TOOLS	9,126	8,955	4,340	21,530	5,383	6,200 ✓	30.0
RENT	474	279	67	209	52 ✓	0	N/A
VEHICLE EXPENSE	3,215	2,893	2,658	7,363	1,841 ✓	2,300	(15.6)
UTILITIES	12,449	8,866	3,759	14,766	3,692	7,000 ✓	46.3
TRAVEL AND BUSINESS MEETINGS	415	17	0	262	66	100 ✓	100.0
DEPRECIATION	9,837	18,442	22,653	91,191	22,798	23,000 ✓	1.5
INSURANCE	2,187	1,637	2,540	7,638	1,910	2,000 ✓	(27.0)
OUTSIDE LABOR AND SERVICES	0	0	0	0	0	0	N/A
SAFETY	425	192	0	55	14	150 ✓	100.0
GROUP INSURANCE	5,834	1,901	1,519	6,043	1,511	1,500 ✓	(1.3)
TAXES AND LICENSES	6,081	7,975	7,485	29,697	7,424 ✓	8,100	7.6
EDUCATION AND TRAINING	62	11	0	0	0	0	N/A
MISCELLANEOUS	413	307	1,073	1,383	346	291 ✓	(268.7)
TOTAL OVERHEAD EXPENSES	155,441	103,623	78,020	317,845	79,461	79,000	1.2
% OF DIRECT LABOR	195.900 %	109.900 %	140.150 %	222.361 %	222.361 %	119.997 %	(22.9)%

24,250

82,960

NWMAR130178

NORTHWEST MARINE IRON WORKS
SHOP DIVISION
PAYROLL TAX AND OVERHEAD EXPENSE SUMMARY

MONTH SEPTEMBER FISCAL YEAR 1984 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
TOTAL P/R TAX AND OVERHEAD	189,238	133,496	92,862	361,631	90,408	103,250	10.1
SALES EXPENSE	10,860	7,547	6,649	32,204	8,051	8,100	17.9
ADMINISTRATIVE EXPENSE	10,059	55,619	54,588	200,897	50,224	47,600	(14.7)
OTHER INCOME (EXPENSE)	3,627	(7,591)	(18,636)	(66,610)	(16,653)	(10,100)	(84.5)
TOTAL COMBINED OVERHEAD	202,530	204,253	172,735	661,342	165,336	169,050	(2.2)
% OF DIRECT LABOR	255.200 %	216.700 %	310.289 %	462.668 %	462.668 %	243.939 %	(27.2)%
DIRECT LABOR - SHOP	50,993	41,868	55,669	142,829	35,707	49,200	(13.1)
DIRECT LABOR - DASH-1	28,368	52,395	0	112	28	20,100	100.0
DIRECT LABOR (DOLLARS)	79,361	94,263	55,669	142,941	35,735	69,300 ✓	19.7
TOTAL COMB O/H PLUS LABOR	281,891	298,516	228,404	804,283	201,071	238,350	4.2
DIRECT ST HOURS	5,611	6,383	3,204	8,795.5	2,199	0	40.4
DIRECT OT HOURS	464	534	777	1,835.0	459	0	N/A
TOTAL DL HOURS (ST PLUS 1.5 OT)	6,539.0	7,451.0	4,369.5	11,548.5	2,887.5	5,374.0 ✓	18.7
LOADED LABOR COST/HOUR	43.11	40.06	52.27	69.64	69.64	44.35	(17.9)

OVERHEAD TO WORK IN PROGRESS	78,020	311,615
OVERHEAD TO COST OF SALES		6,230
	78,020	317,845

NORTHWEST MARINE IRON WORKS
SHOP DIVISION
ADMINISTRATIVE EXPENSE

MONTH SEPTEMBER — FISCAL 1984 YEAR 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
ADMINISTRATIVE EXPENSE							
GENERAL & ADMIN SALARIES	0	19,418	16,448	65,030	16,258 ✓	18,900	13.0
ENGRG & ESTIMATING SALARIES	19,619	9,436	8,930	34,798	8,700 ✓	6,800	(31.3)
P/R TAXES AND WORK COMP	0	3,483	2,450	10,732	2,683 ✓	3,900	37.2
GROUP INSURANCE	0	2,652	2,607	10,157	2,539 ✓	2,600	(.3)
OUTSIDE LABOR AND SERVICES	0	0	606	606	152	0 ✓	N/A
POSTAGE/OFFICE SUPPLIES	544	875	265	691	173	750 ✓	64.7
DUES AND SUBSCRIPTIONS	45	69	0	0	0	100 ✓	100.0
EDUCATION AND TRAINING	0	2	0	0	0	0	N/A
PROFESSIONAL SERVICES	75	1,805	761	2,671	668	800 ✓	4.9
TRAVEL AND BUSINESS MEETINGS	0	465	0	0	0	200 ✓	100.0
TELEPHONE	2,836	3,564	3,787	10,616	2,654	3,000 ✓	(26.2)
AUTO EXPENSE	0	947	735	1,834	459	800 ✓	8.1
CONTRIBUTIONS	121	0	0	0	0	0	N/A
MISCELLANEOUS	0	51	0	63	16	50 ✓	100.0
SEVERANCE PAY	0	3,152	(1)	(1)	(0)	0 ✓	N/A
INTERCOMPANY S/C	10,059	9,700	18,000	63,700	15,925	9,700	(85.6)
ADMINISTRATIVE EXPENSE		55,619	54,588	200,897	50,224	47,600	(14.7)

35,880

ALLOCATION TO DEPARTMENTS — ALLOCATION TO DEPARTMENTS

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
ADMINISTRATIVE EXPENSE (ALLOCATION TO COMMERCIAL)	0	45,830	43,537	160,195	40,049	37,954	(14.7)
ADMINISTRATIVE EXPENSE (ALLOCATION TO PRESCOTT)	0	8,510	9,241	34,032	8,508	8,065	(14.6)
ADMINISTRATIVE EXPENSE (ALLOCATION TO BLUE BABE)	0	1,279	1,810	6,670	1,668	1,581	(14.5)
ADMINISTRATIVE EXPENSE (TOTAL)	10,059	55,619	54,588	200,897	50,224	47,600	(14.7)

NORTHWEST MARINE IRON WORKS
SHOP DIVISION
SALES EXPENSE DETAIL

MONTH SEPTEMBER — FISCAL 1984 YEAR 1983

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
SALES EXPENSE							
SALES SALARIES	2,278	5,029	4,966 ✓	23,136	5,784	4,600	(8.0)
TRAVEL AND BUSINESS MEETINGS	677	664	113	697	174	700 ✓	83.9
P/R TAXES AND BENEFITS	86	971	953 ✓	4,488	1,122	900	(5.9)
SEVERANCE PAY	0	23	0	0	0	0	N/A
AUTO EXPENSE	789	532	387	1,748	437	400 ✓	3.3
ADVERTISING	1,839	1,448	230	2,130	533	1,500 ✓	84.7
BAD DEBTS EXPENSE	2,115	(1,122)	0	0	0	0	N/A
MISCELLANEOUS	44	2	0	5	1	0 ✓	N/A
SALES EXPENSE	10,860	7,547	6,649	32,204	8,051	8,100	17.9

8,519

ALLOCATION TO DEPARTMENTS — ALLOCATION TO DEPARTMENTS

	1982 AVERAGE	1983 AVERAGE	CURRENT MONTH	CURR MONTH YTD	YTD AVERAGE	BUDGET	PERCENT VARIANCE
SALES EXPENSE (ALLOCATION TO COMMERCIAL)	8,564	6,226	5,304	25,680	6,420	6,458	17.9
SALES EXPENSE (ALLOCATION TO PRESCOTT)	1,570	1,185	1,125	5,455	1,364	1,372	18.0
SALES EXPENSE (ALLOCATION TO BLUE BABE)	726	136	220	1,069	267	269	18.2
SALES EXPENSE (TOTAL)	10,860	7,547	6,649	32,204	8,051	8,100	17.9

Initials	Date
Prepared By	
Approved By	

SUMMARY OF HOME OFFICE EXPENSES LABORS INTO RATE 10/21/83

	Per F/S	Usage Charges *	Cost of Capital *	Total	Marine Division %	Marine Division Amount	Shop Division % *	Shop Division Amount
Executive	74572	307	7094	81973				
Administrative	10323			10323				
Finance	39242	100	1080	40422				
Fleet Mgmt	15697	4029	10923	30649				
Marketing	8012			8012				
Other Expense	5650			5650				
	153496	4436	19097	177029	60.0 % ⊛	106217	4.4 %	7789
Personnel	24065	344	1951	25360	60.0 %	15216	5.9 %	1496
MIS	91201	301	10800	102302	47.0 %	48082	5.3 %	5422
	268762	5081	30848	304691		169515		14707

* Per Fiscal 1983 Navy accounting

⊛ Estimated based upon Fiscal 1983 Navy accounting.

4912½ BUFF · 8912½ GREEN · 4212½ WHITE

NORTHWEST MARINE IRON WORKS
CORPORATE SERVICES
EXECUTIVE OFFICE

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES	28,072	86,279	28,760 ✓	26,250	(9.6)
PAYROLL TAXES	2,223	7,456	2,485 ✓	2,625	5.3
AUTO EXPENSE	2,600	6,560	2,187 ✓	1,705	(28.3)
GROUP INSURANCE	2,486	12,211	4,070	2,888 ✓	(41.0)
TRAVEL AND BUSINESS MEETINGS	571	1,384	461	2,000 ✓	76.9
DUES & SUBSCRIPTIONS	212	1,802	601	417 ✓	(44.2)
MISC EMPLOYEE BENEFITS	88	1,263	421	1,000 ✓	57.9
CONTRIBUTIONS	0	4,833	1,611	3,333	51.7
CONTRIBUTIONS - POLITICAL	0	0	0	250	100.0
ADVERTISING & PUBLIC RELATION	0	0	0	0	N/A
OUTSIDE LABOR & SERVICES	0	0	0	83 ✓	100.0
EDUCATN,TRNING & CONFERENCES	255	436	145	208 ✓	30.2
TOTAL CONTROLLABLE EXPENSE	36,507	122,224	40,741	40,759	.0
OTHER EXPENSE:					
MAINTENANCE	212	1,336	445	850 ✓	47.6
EXPENDABLE EQUIPMENT	0	0	0	0	N/A
UTILITIES	184	155	52	83 ✓	38.0
DEPRECIATION	645	1,935	645	650 ✓	.8
INSURANCE	46	137	46	75 ✓	39.1
POSTAGE & DELIVERY	40	70	23	50 ✓	53.3
OFFICE SUPPLIES	0	229	76	50 ✓	(52.7)
TELEPHONE	212	642	214	400 ✓	46.5
EQUIPMENT RENTAL	0	0	0	0	N/A
PROPERTY TAXES & LICENSES	835	5,498	1,833	900 ✓	(103.6)
BAD DEBTS	0	0	0	0	N/A
MISCELLANEOUS	42	42	14	33 ✓	58.0
TOTAL OTHER EXPENSE	2,216	10,044	3,348	3,092	(8.3)
E.O. SUB-TOTAL	38,723	132,268	44,089	43,851	(.5)

CONTINUED NEXT PAGE

NORTHWEST MARINE IRON WORKS
CORPORATE SERVICES (CONTINUED)
EXECUTIVE OFFICE

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
PROFESSIONAL SERVICES					
-OTHER	0	0	0	0	N/A
-DIRECTORS FEES	7,200	21,600	7,200	7,200 ✓	.0
-CONSULTING-OUTSIDE	0	1	0	250 ✓	99.9
-CONSULTING-INTERNAL	2,250	8,250	2,750	1,750 ✓	(57.1)
-LEGAL FEES	8,036	27,958	9,319	10,417 ✓	10.5
-ACCOUNTING FEES	0	815	272	1,000 ✓	72.8
-PENSION/WIDOWS ALLOWANCE	2,000	6,300	2,100	2,250 ✓	6.7
-RETIREE BENEFITS	8,990	21,623	7,208 ✓	2,917	(147.1)
-APPRAISAL SERVICES	0	0	0	0	N/A
-SECURITY SERVICES	0	0	0	833 ✓	100.0
PROFESSIONAL SERVICES	28,476	86,547	28,849	26,617	(8.4)
BOAT EXPENSE					
-OTHER	266	798	266 ✓	0	N/A
-SALARIES	0	0	0	0	N/A
-PAYROLL TAXES	0	0	0	0	N/A
-SUPPLIES & MAINTENANCE	0	340	113	0	N/A
-DEPRECIATION	125 ✓	3,452	1,151	0	N/A
-MOORAGE	65	195	65 ✓	100	35.0
-UTILITIES	49	81	27	58 ✓	53.7
-FUEL	0	0	0	0	N/A
-LICENSES & FEES	0	0	0	20	100.0
-DUES	25	75	25	30 ✓	16.7
BOAT EXPENSE	530	4,941	1,647	208	(690.6)
TOTAL	67,729	223,756	74,585	70,676	(5.5)

74,572

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES

ADMINISTRATIVE SERVICES

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES	4,580	14,102	4,701 ✓	2,083	(125.6)
AYROLL TAXES	344	1,161	387 ✓	208	(85.8)
AUTO EXPENSE	386	1,011	337	125 ✓	(169.6)
GROUP INSURANCE	417	2,024	675	229 ✓	(194.4)
PROFESSIONAL SERVICES	0	0	0	50 ✓	100.0
TRAVEL AND BUSINESS MEETINGS	0	0	0	100 ✓	100.0
DUES & SUBSCRIPTIONS	31	246	82	125 ✓	34.4
OUTSIDE LABOR & SERVICES	0	0	0	50 ✓	100.0
EDUCATN,TRNING & CONFERENCES	0	0	0	25 ✓	100.0
TOTAL CONTROLLABLE EXPENSE	5,758	18,544	6,181	2,996	(106.3)
OTHER EXPENSE:					
MAINTENANCE	20	316	105	300 ✓	64.9
EXPENDABLE EQUIPMENT	0	0	0	50 ✓	100.0
UTILITIES	382	605	202	225 ✓	10.4
DEPRECIATION	1,703	5,110	1,703	1,700 ✓	(.2)
INSURANCE	25	74	25	46 ✓	46.2
POSTAGE & DELIVERY	1,106	1,486	495	200 ✓	(147.7)
OFFICE SUPPLIES	30	(2,184)	(728)	1,000 ✓	172.8
TELEPHONE	338	1,109	370	300 ✓	(23.2)
EQUIPMENT RENTAL	223	223	74	200 ✓	62.8
MISC EMPLOYEE BENEFITS	0	0	0	0	N/A
CONTRIBUTIONS	0	0	0	0	N/A
ADVERTISING & PUBLIC RELATION	(1)	66	22	200 ✓	89.0
PROPERTY TAXES & LICENSES	246	737	246	300 ✓	18.1
MISCELLANEOUS	0	0	0	10 ✓	100.0
TOTAL OTHER EXPENSE	4,072	7,542	2,514	4,531	44.5
TOTAL	9,830	26,086	8,695	7,527	(15.5)

10,323

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES

ACCOUNTING & FINANCE-SUMMARY

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES	25,065	79,347	26,449	24,167 ✓	(9.4)
PAYROLL TAXES	1,882	6,551	2,184	2,417 ✓	9.6
AUTO EXPENSE	1,245	3,433	1,144	1,200 ✓	4.6
GROUP INSURANCE	2,275	11,440	3,813	2,658 ✓	(43.4)
PROFESSIONAL SERVICES	4,461	6,336	2,112	1,617 ✓	(30.6)
TRAVEL AND BUSINESS MEETINGS	236	517	172	392 ✓	56.0
DUES & SUBSCRIPTIONS	233	1,568	523	1,871 ✓	72.1
OUTSIDE LABOR & SERVICES	386	1,493	498	742 ✓	32.9
EDUCATN,TRNING & CONFERENCES	177	1,453	484	208 ✓	(132.5)
TOTAL CONTROLLABLE EXPENSE	35,960	112,138	37,379	35,271	(6.0)
OTHER EXPENSE:					
MAINTENANCE	0	517	172	500 ✓	65.5
EXPENDABLE EQUIPMENT	30	90	30	33 ✓	10.0
UTILITIES	1,195	1,795	598	667 ✓	10.2
DEPRECIATION	561	1,684	561	625 ✓	10.2
INSURANCE	66	197	66	125 ✓	47.5
POSTAGE & DELIVERY	10	10	3	17 ✓	80.0
OFFICE SUPPLIES	(2)	123	41	583 ✓	93.0
TELEPHONE	928	2,821	940	900 ✓	(4.5)
EQUIPMENT RENTAL	0	0	0	250 ✓	100.0
MISC EMPLOYEE BENEFITS	0	128	43	0 ✓	N/A
CONTRIBUTIONS	0	0	0	0	N/A
ADVERTISING & PUBLIC RELATION	0	4	1	0 ✓	N/A
PROPERTY TAXES & LICENSES	221	663	221	250 ✓	11.6
MISCELLANEOUS	69	69	23	21 ✓	(10.4)
TOTAL OTHER EXPENSE	3,078	8,101	2,700	3,971	32.0
TOTAL	39,038	120,239	40,080	39,242	(2.1)

39,242

NWMAR130186

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES

PERSONNEL & INDUSTRIAL RELATIONS

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES	12,859 ✓	34,081	18,027	16,667	(8.2)
PAYROLL TAXES	965 ✓	4,512	1,504	1,667	9.8
AUTO EXPENSE	647	1,407	469	358 ✓	(30.9)
GROUP INSURANCE	1,166 ✓	8,162	2,721	1,833	(48.4)
PROFESSIONAL SERVICES	0	1	0	1,667 ✓	100.0
TRAVEL AND BUSINESS MEETINGS	823	5,546	1,849	708 ✓	(161.0)
DUES & SUBSCRIPTIONS	0	455	152	267 ✓	43.1
PUBLICATIONS & MANUALS	42	2,339	780	2,000 ✓	61.0
OUTSIDE LABOR & SERVICES	0	0	0	250 ✓	100.0
EDUCATN. TRNING & CONFERENCES	0	0	0	750 ✓	100.0
TRAINING AIDS	0	5	2	0 ✓	N/A
TOTAL CONTROLLABLE EXPENSE	16,502	76,508	25,503	26,167	2.5
OTHER EXPENSE:					
MAINTENANCE	127	946	315	658 ✓	52.1
EXPENDABLE EQUIPMENT	0	40	13	367 ✓	96.4
UTILITIES	809	1,323	441	450 ✓	2.0
DEPRECIATION	495	1,485	495	500 ✓	1.0
INSURANCE	45	161	54	92 ✓	41.5
POSTAGE & DELIVERY	0	6	2	8 ✓	76.0
OFFICE SUPPLIES	(1)	180	60	225 ✓	73.3
TELEPHONE	588	1,828	609	542 ✓	(12.5)
EQUIPMENT RENTAL	10	10	3	0 ✓	N/A
MISC EMPLOYEE BENEFITS	0	26	9	0 ✓	N/A
ADVERTISING & PUBLIC RELATION	0	0	0	17 ✓	100.0
PROPERTY TAXES & LICENSES	221	663	221	217 ✓	(2.0)
MISCELLANEOUS	0	0	0	0	N/A
TOTAL OTHER EXPENSE	2,294	6,668	2,223	3,075	27.7
TOTAL	18,796	83,176	27,725	29,242	5.2

24,065

NWMAR130187

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES

FLEET MANAGEMENT

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES - SUPERVISORY	9,826	28,716	9,572 ✓	4,200	(127.9)
SALARIES - OFFICE	1,221	3,663	1,221 ✓	1,300	6.1
CRAFT WAGES	5,599	18,249	6,083 ✓	10,833	43.8
PAYROLL TAXES	864	3,063	1,021 ✓	1,633	37.5
AUTO EXPENSE	1,445	4,440	1,480	2,000 ✓	26.0
GROUP INSURANCE	1,712	7,841	2,614 ✓	1,797	(45.5)
PROFESSIONAL SERVICES	123	5,310	1,770	3,200 ✓	44.7
TRAVEL AND BUSINESS MEETINGS	0	0	0	200 ✓	100.0
DUES & SUBSCRIPTIONS	0	5	2	100 ✓	98.3
OUTSIDE LABOR & SERVICES	304	569	190	500 ✓	62.1
EDUCATN.TRNING & CONFERENCES	0	0	0	100 ✓	100.0
TOTAL CONTROLLABLE EXPENSE	21,094	71,856	23,952	25,863	7.4
OTHER EXPENSE:					
MAINTENANCE	130	858	286	1,000 ✓	71.4
EXPENDABLE EQUIPMENT	216	456	152	200 ✓	24.0
UTILITIES	993	2,089	696	600 ✓	(16.1)
DEPRECIATION	1,846	5,494	1,831	1,700 ✓	(7.7)
DEPRECIATION - FLEET VEHICLES	14,119	42,277	14,092	14,000 ✓	(.7)
INSURANCE	56	166	55	113 ✓	50.8
POSTAGE & DELIVERY	0	3	1	0 ✓	N/A
INSURANCE - FLEET VEHICLES	3,295	9,887	3,296	2,300 ✓	(43.3)
OFFICE SUPPLIES	13	80	27	200 ✓	86.7
TELEPHONE	456	1,473	491	500 ✓	1.8

CONTINUED NEXT PAGE

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES (CONTINUED)

FLEET MANAGEMENT

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
EQUIPMENT RENTAL	0	0	0	200 ✓	100.0
SUPPLIES & ACCESSORIES	468	2,637	879	417 ✓	(111.0)
MISC EMPLOYEE BENEFITS	0	143	48	0 ✓	N/A
PROPERTY TAXES & LICENSES	565	1,695	565	700 ✓	19.3
SERVICE ADJUSTMENT	0	0	0	50 ✓	100.0
MISCELLANEOUS	0	0	0	17 ✓	100.0
VEHICLE LEASE EXPENSE	5,430	17,711	5,904 ✓	14,300	58.7
TOTAL OTHER EXPENSE	27,587	84,969	28,323	36,296	22.0
TOTAL	48,681	156,825	52,275	62,159	15.9
ADD 'FM' DIRECT COSTS					
'FM' DIRECT COST - PURCHASES	1,076	1,665	555 ✓	4,000	86.1
'FM' DIRECT COST - STORES	3,263	12,104	4,035	6,000 ✓	32.8
SUB-TOTAL	53,020	170,594	56,865	72,159	21.2
LESS 'FM' BILLINGS					
INTRA-DIVISION	4,240	12,021	4,007 ✓	5,000	(19.9)
INTER-COMPANY	23,442	74,086	24,695 ✓	41,000	(39.8)
OUTSIDE	6,587	23,230	7,743	16,667 ✓	(53.5)
TOTAL BILLINGS	34,269	109,337	36,446	62,667	(41.8)
NET EXPENSE	18,751	61,257	20,419	9,492	(115.1)

15,697

NORTHWEST MARINE IRON WORKS
CORPORATE SERVICES-MANAGEMENT INFORMATION SERVICE
M. I. S. - SUMMARY

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES	42,473	112,914	37,638 ✓	33,333	(12.9)
PAYROLL TAXES	3,190	9,249	3,083 ✓	3,333	7.5
AUTO EXPENSE	22	86	29 ✓	250	88.5
GROUP INSURANCE	3,855 ✓	15,688	5,229	3,667	(42.6)
PROFESSIONAL SERVICES	1	3	1	0 ✓	N/A
TRAVEL AND BUSINESS MEETINGS	40	62	21 ✓	667	96.9
DUES & SUBSCRIPTIONS	0	0	0	133 ✓	100.0
OUTSIDE LABOR & SERVICES	340	3,325	1,108	2,767 ✓	59.9
EDUCATN, TRNING & CONFERENCES	0	0	0	833 ✓	100.0
TOTAL CONTROLLABLE EXPENSE	49,921	141,327	47,109	44,983	(4.7)
OTHER EXPENSE:					
MAINTENANCE	0	969	323	1,650 ✓	80.4
EXPENDABLE EQUIPMENT	0	0	0	250 ✓	100.0
UTILITIES	3,199	4,512	1,504	1,750 ✓	14.1
DEPRECIATION	16,336	49,014	16,338 ✓	19,150	14.7
INSURANCE	146	437	146	313 ✓	53.4
POSTAGE & DELIVERY	0	0	0	25 ✓	100.0
OFFICE SUPPLIES	0	73	24	300 ✓	91.9
TELEPHONE	2,656	8,710	2,903	2,950 ✓	1.6
EQUIPMENT RENTAL	3,597	4,476	1,492	1,500 ✓	.5
SUPPLIES & ACCESSORIES	75	97	32	4,167 ✓	99.2
SOFTWARE LICENSES & FEES	0	2,219	740	5,750 ✓	87.1
MISC EMPLOYEE BENEFITS	0	132	44	0 ✓	N/A
CONTRIBUTIONS	175	175	58	0	N/A
DATA PROC MAINTENANCE	6,805	16,538	5,513	7,500 ✓	26.5
PROPERTY TAXES & LICENSES	332	995	332	350 ✓	5.2
MISCELLANEOUS	26	26	9	0 ✓	N/A
TOTAL OTHER EXPENSE	33,347	88,373	29,458	45,654	35.5
TOTAL	83,268	229,700	76,567	90,637	15.5

91,201

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES

MARKETING SERVICES

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR
CONTROLLABLE EXPENSE:					
SALARIES	5,629 ✓	18,323	6,108	5,000	(22.2)
PAYROLL TAXES	423 ✓	1,508	503	500	(.5)
AUTO EXPENSE	446	1,178	393	400 ✓	1.8
GROUP INSURANCE	510 ✓	2,634	878	550	(59.6)
PROFESSIONAL SERVICES	0	1	0	100 ✓	99.7
TRAVEL AND BUSINESS MEETINGS	0	0	0	250 ✓	100.0
DUES & SUBSCRIPTIONS	64	533	178	183 ✓	3.1
OUTSIDE LABOR & SERVICES	0	0	0	0	N/A
EDUCATN, TRNING & CONFERENCES	0	0	0	50 ✓	100.0
TOTAL CONTROLLABLE EXPENSE	7,072	24,177	8,059	7,033	(14.6)
OTHER EXPENSE:					
MAINTENANCE	40	434	145	125 ✓	(15.7)
EXPENDABLE EQUIPMENT	0	0	0	0	N/A
UTILITIES	66	106	35	40 ✓	11.7
DEPRECIATION	14	43	14	15 ✓	4.4
INSURANCE	15	45	15	29 ✓	48.6
POSTAGE & DELIVERY	0	36	12	0 ✓	N/A
OFFICE SUPPLIES	0	26	9	75 ✓	88.4
TELEPHONE	184	487	162	150 ✓	(8.2)
EQUIPMENT RENTAL	0	0	0	0	N/A
MISC EMPLOYEE BENEFITS	0	0	0	0	N/A
CONTRIBUTIONS	0	0	0	0	N/A
ADVERTISING & PUBLIC RELATION	0	0	0	0	N/A
PROPERTY TAXES & LICENSES	38	111	37	33 ✓	(11.0)
MISCELLANEOUS	0	0	0	0	N/A
TOTAL OTHER EXPENSE	357	1,288	429	467	8.2
TOTAL	7,429	25,465	8,488	7,501	(13.2)

8,012

NWMAR130191

NORTHWEST MARINE IRON WORKS

CORPORATE SERVICES

OTHER INCOME (EXPENSE) SUMMARY

FISCAL 1984
MONTH OF AUGUST 1983

DESCRIPTION	CM	CMYTD	YTAVG	BUDGET	FAV(UNFAV) %VAR	
GAIN ON SALE - TYRONE INVT	0	0	0	0	N/A	
GAIN ON SALE - PORTLAND MACHY	0	0	0	0	N/A	
GAIN ON SALE - HIGH REACH	0	0	0	0	N/A	
GAIN(LOSS) SALE OF ASSETS	0	0	0	0	N/A	
RENTAL INCOME - BUILDINGS	1,781	4,456	1,485	2,500 ✓	(40.6)	
INTEREST INCOME	2,089	4,999	1,666	2,000	(16.7)	
PURCHASE DISCOUNTS	33	113	38	100 ✓	(62.3)	<5,650>
AUTO BONUS	436	1,501	500	750 ✓	(33.3)	
MISCELLANEOUS INCOME	4,590	9,726	3,242	3,000 ✓	8.1	
INTEREST EXPENSE	(147,042)	(396,503)	(132,168)	(120,000)	(10.1)	
INTERCOMPANY INTEREST	132,562	246,389	82,130	(10,000)	(921.3)	
MISCELLANEOUS EXPENSE	(13,372)	(36,057)	(12,019)	(12,000) ✓	(.2)	
OTHER INCOME (EXPENSE)	(18,923)	(165,376)	(55,125)	(133,650)	58.8	
INTEREST EXPENSE	(147,042)	(396,503)	(132,168)	(120,000)	(10.1)	
OTHER INCOME (EXPENSE)-NET	128,119	231,127	77,042	(13,650)	664.4	

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

December 2, 1983
Serial No. 2330-42

Commander, Military Sealift Command (M-54)
Washington, D.C. 20390

Attention: Mr. Lee Tomasek
Disbursing Officer
Wolfe Bldg., Room 153

Subject: Invoice Payment Procedures for USNS OBSERVATION ISLAND
Contract No. N00033-70-C-0075

Gentlemen:

This letter will serve as your authorization to hold checks in payment to Northwest Marine Iron Works under the subject contract. These checks will be picked up by a First National Bank of Maryland courier on our behalf.

Our contact at the First National Bank of Maryland has been Mr. Christopher Pristell, International Banking Executive (301-244-4823).

If you require any information from Northwest Marine now or during the course of contract please contact me at 503-285-7557.

Very truly yours,

Bruce A. Dummer

Bruce A. Dummer
Controller

BAD/jmw

cc: Dale Weitzel - NMIW

Christopher Pristell
International Banking Executive
First National Bank of Maryland
P.O. Box 17086
Baltimore, Maryland 21203

Admin. (2)
File

M-4E3 CONREP DIVISION DIRECTOR ED BARRETT 282-0588 AREA code 202

ACCOUNTING DIVISION (Continued)

M-52g	Accountant	Mr D Wiley	152	427-5630
M-52a	Accountant	Ms M Brown	152	427-5630
M-52j	Accountant	Mr T Murphy	152	427-5630
M-52h	Accounting Technician	Mrs J Rious	152	427-5630
M-52d	Accounting Technician	Mr B Clamp	152	427-5630

PERFORMANCE REPORTING & ANALYSIS DIVISION

M-53	Director	Mr L Havens	166	427-5635
M-53s	Secretary	Mrs V Grantham	168	427-5635
M-53a	Statistician-Senior Analyst	Mr J Flegal	168	427-5635
M-53b	Statistician-Controlled Cargo Analyst	Mr S Schwartz	170	427-5635
M-53c	Statistician-POL & NTFP Analyst	Mrs R J Franklin-Mason	170	427-5635
M-53d	Statistician-ULB Specialist	(Vacant)	172	427-5635
M-53e	Statistician-Commercial Cargo Analyst	Ms L Douglas	172	427-5635
M-53f	Statistician-Scientific/ Auxiliary Analyst	Mr J Penn, Jr	170	427-5635
M-53g	Statistical Asst-POL Rpts	Mrs H Allen	170	427-5635
M-53h	Statistical Asst-Cargo Rpts	Mrs J Warren	172	427-5635
M-53i	Statistical Asst-Statistical Reports	(Vacant)	172	427-5635

DISBURSING DIVISION (Writes check)

Room 153, Wolfe Bldg

M-54	Director/Disbusing Officer	Mr L Tomasek (Lee)	153	427-5646
M-54X	Deputy Disbursing Officer	Mrs P T Thompson	153	427-5646
M-54s	Clerk-Typist	Ms K Odellas	153	427-5646
M-54a	Fiscal Accounting Asst	Ms I McKenzie	153	427-5646
M-54b	Fiscal Accounting Clerk	Ms R Thomas	153	427-5646
M-54c	Travel Asst	(Vacant)	153	427-5646

FINANCIAL SYSTEMS & REVIEW DIVISION

M-55	Director	Mr A Rocker	155	427-5650
M-55s	Secretary (Typing)	Ms F Jones	160	427-5617
M-55a	Auditor	Mrs E Henriksen	155	427-5650
M-55b	Auditor	Mr D Lewis	157	427-5650
M-55c	Systems Accountant	Mr B Wright	157	427-5650
M-55d	Accountant	Mrs S Rauch	157	427-5650

PAYMENT CERTIFICATION DIVISION (Reviews Payment Request)

M-56	Director	Mrs J Rodriques	167	427-5657
M-56s	Clerk-Typist	Ms T Williams	167	427-5657
M-56a	Marine Transportation Spec	Mrs I Marshall	161	427-5657
M-56b	Marine Transportation Spec	Mrs C Rivers (Carolyn)	163	427-5657

NWMAR130194

PAYMENT CERTIFICATION DIVISION (Continued)

M-56c	Contract Spec	Ms B Rossi	161	427-5657
M-56d	Contract Spec	Mr J Watson	167	427-5657
M-56e	Voucher Exam Supervisor	Mrs C Corria	167	427-5657
M-56f	Certifying Officer	(Vacant)	169	427-5654
M-56g	Voucher Examiner	Mrs S Travis	171	427-5657
M-56h	Voucher Examiner	Mr M Smith	169	427-5657
M-56i	Voucher Examiner	Ms C Merritt	169	427-5657
M-56j	Voucher Examiner	Ms C Blanco	169	427-5657
M-56k	Voucher Examiner	Mr L Kupka	169	427-5657
M-56l	Voucher Examiner	Mrs T Hill	169	427-5657
M-56m	Voucher Examiner	Ms M Green	169	427-5657
M-56n	Voucher Examiner	Ms R Mathis	169	427-5657
M-56o	Voucher Examiner	Mrs M Vorndron	169	427-5657
M-56p	Voucher Examiner	Mr M Chenault	169	427-5657

ASSISTANT CHIEF OF STAFF (STRATEGIC MOBILITY)

M-6	Strategic Mobility Off	COL J Pugmire, USA	222	282-2894
M-6s	Secretary	Mrs E Barber	222	282-2894
M-6X	Deputy	Mr E J Krochalis	222	282-2895
M-6B	JSC Liaison	CDR L Gallagher	222	282-2029

ATLANTIC/EUROPEAN PLANS DIVISION

M-61	Director	LTC A Blenkle, USMC	222	282-2897
M-61s	Secretary	Mrs L Brower	222	282-2897
M-61a	Asst to the Director	Mr R Heatley	222	282-2897
M-61b	Program Analyst	(Vacant)	222	282-2897
M-61c	Program Analyst	Mr N Roy	222	282-2897

PACIFIC PLANS DIVISION

M-62	Director	MAJ W Durbon USAF	222	282-2898
M-62s	Secretary	Mrs L Dixon	222	282-2898
M-62b	Program Analyst	Mr H Cully	222	282-2898
M-62c	Program Analyst	(Vacant)	222	282-2898
M-62d	Program Analyst	Mr E Mellinger	222	282-2898

PLANNING SUPPORT DIVISION

M-63	Director	CDR L A Gallagher	222	282-2029
M-63s	Secretary	Mrs A Warren	222	282-2899
M-63a	Asst to the Director	Mrs K Wiswesser	222	282-2899
M-63b	Assistant	Mr J Milton	222	282-2899
M-63c	Marine Transportation Asst	Mrs G Stiles	222	282-2899

NWMAR130195

CLAUSE 8. PAYMENTS (1981 DEC)

(a) Progress payments (which are hereby defined as payments prior to completion of work in progress under any job order) shall be made as the work progresses upon the submission by the Contractor of invoices therefor in such form and with such copies as the Contracting Officer may prescribe. Such invoices may be submitted semi-monthly or more frequently if expenditures by the Contractor warrant. No progress payment will be required under this clause upon invoices aggregating less than $5,000. Such progress payments shall be made upon the basis of the value, computed on the price of the job order, of labor and materials incorporated in the work, materials suitably stored at the site of the work, and preparatory work already completed, all as estimated or approved by the Contracting Officer, less the aggregate of any previous payments. For the purpose of enabling the Contracting Officer to make such estimate or give such approval, the Contractor will furnish to the Contracting Officer, upon request, such reports concerning expenditures on the work to date as may be requested.

(b) In making such progress payments, there shall be retained five percent of the amount estimated or approved by the Contracting Officer pursuant to paragraph (a) above until final completion and acceptance of all work covered by the job order.

(c) If the Contracting Officer so directs, progress payments under paragraph (a) of this clause shall be based upon the price of the job order as adjusted from time to time as a result of change orders under Clause 6 hereof. If the Contracting Officer has not directed that the increase or decrease in price as a result of any change order be taken into account for purposes of progress payments under paragraph (a) of this clause, (i) payments on account of such increases shall be made from time to time when the increase is determined pursuant to Clause 6, and (ii) reductions on account of such decreases shall be made for the purposes of subsequent progress payments as soon as the amounts thereof are determined pursuant to Clause 6 hereof.

(d) Upon completion of the work under a job order and final inspection and acceptance thereof and upon submission of invoices therefor in such form and with such copies as the Contracting Officer may prescribe the Contractor shall be paid for the price of the job order, as adjusted pursuant to Clause 6 hereof, less the amount of all previous payments.

(e) All materials, equipment and other property or work in process covered by progress payments made by the Department shall upon the making of such progress payments become the sole property of the Government, but shall be subject to the provisions of Clause 12 hereof.

NWMAR130196

NORTHWEST MARINE IRON WORKS

SHIP REPAIRING • GENERAL MACHINE WORK • ENGINEERING

MAIL ADDRESS: P.O. BOX 3109
PORTLAND, OREGON 97208

2516 N.W. 29TH AVENUE
TELEPHONE: 228-8222
AREA CODE 503
PORTLAND, OREGON

December 7, 1983

First National Bank of Maryland
Maritime Division
PO Box 17086
Baltimore, MD 21203

Attn: Mr. Christopher A. Pistell, International Banking Executive

Subject: MSC Check Collection Service

Dear Chris:

We have received your letter of the 29th and the accompanying documents.

The documents have been properly authorized and are enclosed. Our people have been alerted to this system and they are ready for it to go into effect.

It is our understanding that your courier service will contact the Military Sealift Command on a daily basis to determine if proceeds are available. MSC (Mr. Lee Tomasek) will advise the courier service of the availability. The courier service will deliver the check to your Concentration Banking department for processing of the payment. Mr. Dale Weitzel (Cash Manager) or Mr. Robert Harold (Vice President - Finance) will be advised by telephone of the collection and the funds will then be wired directly to our bank, First Interstate Bank of Oregon, 29th & Yeon Branch, Portland, Oregon, Account Number 552-0025984. It is our understanding that the funds will be wired the same day, if collected by your availability time.

Your monthly charges of approximately $85.00 per month will flow through the account analysis. It is our intention not to maintain balances to cover the cost and we anticipate paying your fees on a monthly basis.

You should have received a copy of our Mr. Dummer's letter to MSC's Mr. Tomasek authorizing your bank to pick up checks on our behalf.

Collections may start as early as mid-December, so we would appreciate your efforts in having the procedures established by December 15, 1983.

Please let me know if I have missed anything and if I can be of assistance.

Sincerely,

NORTHWEST MARINE IRON WORKS

Dale G. Weitzel
Cash Manager

DGW:ds
cc-R. Harold
B. Dummer

Bruce Dammer

USNS OBSERVATION ISLAND

2/23/84

	Initials	Date
Prepared By		
Approved By		

	2	3	4	5	6	7
	Bid Hours		December, 1983		January, 1984	
Shop						
Wage			13.17	.11	12.80	.10
Overhead/G+A			53.59	.43	67.50	.54
	1640	8%	66.76	.54	80.30	.64
Marine						
Wage			14.28	14.17	14.36	14.25
Overhead/G+A			45.75	45.38	25.77	25.56
	196727	99.2%	60.03	59.55	40.13	39.81
	198367	100.0%				
Total						
Wage				14.28		14.35
Overhead/G+A				45.81		26.10
				60.09		40.45
Average Men/Day - Production *				125		282

* Proposed 33.15 billing rate based upon average men/day (production) of 430. It is anticipated that average men/day (production) will not surpass 430 during calendar 1984.

4907 BUFF - 8907 GREEN - 4207 WHITE

NWMAR130199

Marine Division

	Initials	Date
Prepared By		
Approved By		

	December 1983	January 1984
Direct Wage - Hourly	278684	671253
23	26921	26232
25	2540	3321
	308145	700806
Payroll Taxes	115117	371742
Production Overhead	350514	373954
Sales Expense	16226	11323
Administrative Expense	120436	142624
Other Expense	<1356>	<15468>
Home Office Expense	147525	134507
Usage Charges	99710	99710
Cost of Facilities Capital	139358	139358
	1295675	1958556
Hours	21582	48810
	60.03	40.13

4907 BUFF · 8907 GREEN · 4207 WHITE

NWMAR130200

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

PHONE: (503) 285-7557

TWX: 910-464-6107 NORMARINE PTL

March 26, 1986

Lee Tornasek
Military Sealift Command, Disbursing Department
8621 Georgia Avenue
Silversprings, Maryland 20910

Attention: Code M-54

Subject: "Final" Retention Payment
USNS OBSERVATION ISLAND (T-AFM23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-JO-001

Dear Lee:

As we discussed, I am enclosing an "Express Mail" envelope for you to disburse the subject payment. Military Sealift Command, Payment Certification Division, informed us disbursing date is scheduled for March 28, 1986. As we agreed I'll call you March 28, 1986 to confirm handling arrangements.

Thanks Lee for the SPECIAL treatment. Let me know if we can return the favor. Please call me or Mark McGirr, if there are any questions.

Sincerely yours,

Steven T. Nicholson

Steven T. Nicholson
Project Accountant

SN/np

cc: B. Zavin
R. Higgins
M. McGirr
J. McMurry

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander, Military Sealit Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE February 25, 1986
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-JO-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-L
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

FINAL BILLING

Final billing of retention for above-named contract.

NOTE: Required services and CDRL's are complete.

TOTAL AMOUNT DUE THIS INVOICE: $200,000.00

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

February 25, 1986

Commander,
Military Sealift Command (M-56)
Washington, D. C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-JO-001
Final Billing

Gentlemen:

Enclosed is the final billing of retention for the subject contract.

Please call me or Mark McGirr if you have any questions.

Very truly yours,

Steven T. Nicholson

Steven T. Nicholson
Project Accountant

STN/sw
Encl.

OBSERVATION ISLAND

MSC - MS. C.A. RIVERS
PAYMENT CERTIFICATION DIV
(301) 427-5654 or 5655

Beverly Bell

BANK OF MARYLAND
ACCT OFFICER
CHRIS PASTELL (MAN)
(301)- 244-4823

FMD
552-002598-4

MSC
DISBURSING DEPART - M-54 code
LEE TOMASEK (MAN) (301) 427-5646

8621 GEORGIA AVE
SILVERSPRINGS, MARYLAND ~~20012~~ 20910

To Steve
Date 3-13 Time 2:00

WHILE YOU WERE OUT

M. Don shelton
of Military Sealeft Command
Wash. D.C.
Phone 202 282-0407
Area Code Number Extension

TELEPHONED		PLEASE CALL	✓
CALLED TO SEE YOU		WILL CALL AGAIN	
WANTS TO SEE YOU		URGENT	
RETURNED YOUR CALL	✓		

Message you made to ED Barriett,
RE: Contract #N00033700075
No problems / is in progress.

3-14-86
Per Don,
Invoice will be approved for pmt after Technical Manuals & Documentation have been vouched. Don says this not a problem - TM&D are at MSC and will vouch tomorrow. His mngr (Bob Jacobs) will approve invoice. Then it goes to Payment Certification and to Disbursing Dept for release. Our invoice was rec'd 2-28, therefore MSC will release pmt on 3-28.
SN

NWMAR130204

MEMO 3-14-86

FROM: S. NICHOLSON

TO: B. ZAVIN M. MCGIRR
R. HIGGINS D. RAIVIO
J. MC MURRY

SUBJECT: OBSERVATION ISLAND RETENTION

Per Don Shelton, MSC engineer (202 282-0407), Observation Island retention payment ($200,000) will be released 3-28-86. However, release is subject to confirmation of MSC's receipt of Technical documents — which Don says they already have and he will confirm on 3-15-86.

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

12905

PAID
SYMBOL 7726
SEP 26 1985
(62387) MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

Supervisor of Shipbuilding
Conversion and Repair, USN
7500 Sand Point Way NE
Seattle, WA 98115

DATE	August 23, 1985
OUR JOB NO.	2665
CUSTOMER'S ORDER NO.	N00033-85-J0-001
CONTRACT NO.	N00033-70-C-0075
INVOICE NO.	2665-J
TERMS	Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 10

Billing for retention on said contract.

Contract Value including Modifications through 3Z	$8,573,752.00
Less: Net amounts paid by MSC through Billing No. 9	($7,973,752.00)
Retention Presently Payable	$ 600,000.00
Less: Holdback Reduction	($ 200,000.00)

Net amount approved for payment
E O Barnett
9-16-85

TOTAL AMOUNT DUE THIS INVOICE $400,000.00

AC 17X4912.33Ø2 ØØØ 77777 Ø Ø62387 2F ØØØØØØ Ø3952ØØØ5192 $4ØØ,ØØØ.ØØ
N6238785RCØ5821

PURSUANT TO AUTHORITY VESTED IN ME, I CERTIFY THAT
THIS VOUCHER IS CORRECT AND PROPER FOR PAYMENT.

R. W. Beil 27 AUGUST 1985
R. W. BEIL, CONTRACT ADMINISTRATOR

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130206

18

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

RECEIVED 8/28 29th for cert OUT FOR CERTIF

Supervisor of Shipbuilding
Conversion and Repair, USN
7500 Sand Point Way NE
Seattle, WA 98115

DATE	August 23, 1985
OUR JOB NO	2665
CUSTOMER'S ORDER NO	N00033-85-J0-001
CONTRACT NO	N00033-70-C-0075
INVOICE NO	2665-J
TERMS	Net

CUSTOMER CODE NUMBER 32220

Duns No 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 10

Billing for retention on said contract.

Contract Value including Modifications through 3Z	$8,573,752.00
Less: Net amounts paid by MSC through Billing No. 9	($7,973,752.00)
Retention Presently Payable	$ 600,000.00
Less: Holdback Reduction	($ 200,000.00)
TOTAL AMOUNT DUE THIS INVOICE	$ 400,000.00

Partial

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130207

SHIP REPAIRERS
NERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE May 6, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-I
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

Per 5/30 TELECON

Received by MSC Payment div 5/17/85. Not back from payment certification as yet.

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 9

Progress Billing for Work Performed to date.

Contract Value including Modifications through 3Z	$8,573,752.00
Less: Net amounts paid by MSC through Billing No. 8	(7,807,069.00)
Amount Presently Payable	$ 766,683.00
Less: Hold Back Reduction	(600,000.00)
TOTAL AMOUNT DUE THIS INVOICE:	$166,683.00

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

9

NWMAR130208

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

Page 112
Line 17

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

9054

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE May 6, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-I
TERMS Net

PAID
SYMBOL
JUN 06 1985
(62387) MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 9

Progress Billing for Work Performed to date.

Contract Value including Modifications through 3Z	$8,573,752.00
Less: Net amounts paid by MSC through Billing No. 8	(7,807,069.00)
Amount Presently Payable	$ 766,683.00
Less: Hold Back Reduction	(600,000.00)
TOTAL AMOUNT DUE THIS INVOICE:	$166,683.00

Net amount approved for payment

AA 17X4912.33Ø2 ØØØ 77777 Ø Ø62387 2F ØØØØØØ Ø3952ØØØ~~5189~~ 2276 N6238785RCØ5821	3,361.ØØ
AB 17X4912.33Ø2 ØØØ 77777 Ø Ø62387 2F ØØØØØØ Ø3952ØØØ~~5188~~ 2277 N6238785RCØ5821	2,189.ØØ
AC 17X4912.33Ø2 ØØØ 77777 Ø Ø62387 2F ØØØØØØ Ø3952ØØØ~~5192~~ 2277 N6238785RCØ5821	161,133.ØØ
	166,683.ØØ

PURSUANT TO AUTHORITY VESTED IN ME, I CERTIFY THAT THIS VOUCHER IS CORRECT AND PROPER FOR PAYMENT.

9 MAY 85
R.W. BEIL, CONTRACT ADMINISTRATOR

E Barnett 5-24-85

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130209

RECEIVED
JUN 03 REC'D

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

May 6, 1985
Serial No. 266

Repair

Supervisor of Shipbuilding,
Conversion and wepair, USN
Seattle, Washington 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 9

Gentlemen:

Enclosed is our invoice for progress billing No. 9 under the subject contract. Contract amount has been verified by your agency.

Please forward the invoice and the enclosed cover letter to Commander, Military Sealift Command in Washington, D.C. An addressed, postage-paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

May 6, 1985
Serial No. 2665-164

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 9

Gentlemen:

Enclosed is our invoice for Progress Billing No. 9 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
:NERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washingotn, D. C. 20390

Attn: Payment Certification Division

DATE April 1, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-H
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 8

Progress Billing for Work Performed to date.

Contract Value including Modifications through 3-0	$8,407,069.00
Less: Prior Billings Nos. 1 - 7	(7,187,951.00)
TOTAL AMOUNT DUE THIS INVOICE:	$1,219,118.00

8

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130213

REPRODUCED AT GOVERNMENT EXPENSE

Standard Form 1034
September 1973
4 Treasury FRM 2000
1034-115

PUBLIC VOUCHER FOR PURCHASES AND SERVICES OTHER THAN PERSONAL

VOUCHER NO. 2665-H

U.S. DEPARTMENT, BUREAU, OR ESTABLISHMENT AND LOCATION
SUPERVISOR OF SHIPBUILDING
CONVERSION AND REPAIR, USN
SEATTLE, WA 98115

DATE VOUCHER PREPARED: Ø1 APR 1985

CONTRACT NUMBER AND DATE: NØØØ33-JO-ØØ1

REQUISITION NUMBER AND DATE:

SCHEDULE NO. 9688

PAID BY

PAID
SYMBOL 7726
APR 29 1985
[illegible] WASH. D.C.
ACCTS NFC WASH. D.C.

DUPLICATE ORIGINAL

PAYEE'S NAME AND ADDRESS
NORTHWEST MARINE IRON WORKS
5555 N. CHANNEL AVE. BLDG. 2
PORTLAND, OREGON 97217

DATE INVOICE RECEIVED

DISCOUNT TERMS

PAYEE'S ACCOUNT NUMBER

SHIPPED FROM | TO | WEIGHT

GOVERNMENT B/L NUMBER

NUMBER AND DATE OF ORDER	DATE OF DELIVERY OR SERVICE	ARTICLES OR SERVICES (Enter description, item number of contract or Federal supply schedule, and other information deemed necessary)	QUANTITY	UNIT PRICE COST	UNIT PRICE PER	AMOUNT (¹)
		PROGRESS BILLING NO. 8 DO NOT MAIL CHECK. THE FIRST NATIONAL BANK OF MARYLAND COURIER WILL PICK UP PER ATTACHED LETTER.				$1,219,118.ØØ

Invoice
Record
Page 95
Line 4

DUPLICATE ORIGINAL

(Use continuation sheet(s) if necessary)

(Payee must NOT use the space below)

TOTAL $1,219,118.ØØ

PAYMENT: ☐ COMPLETE ☐ PARTIAL ☐ FINAL ☐ PROGRESS ☐ ADVANCE

APPROVED FOR = $

EXCHANGE RATE = $1.00

DIFFERENCES

BY ²

TITLE

Amount verified; correct for

(Signature or initials)

Net amount approved for payment

Pursuant to authority vested in me, I certify that this voucher is correct and proper for payment.

Ø3 APR 1985 (Date) — (Authorized Certifying Officer) ² — CONTRACT ADMINISTRATOR (Title)

ACCOUNTING CLASSIFICATION

AA 17X4912.33Ø2 ØØØ 77777 Ø 62387 2F ØØØØØØ Ø3952ØØØ5189 $89Ø,562.ØØ
N6238785RCØ5821
AB 17X4912.33Ø2 ØØØ 77777 Ø 62387 2F ØØØØØØ Ø3952ØØØ518Ø $279,343.ØØ
N6238785RCØ5821
AC 17X4912.33Ø2 ØØØ 77777 Ø 62387 2F ØØØØØØ Ø3952ØØØ5192 $49,213.ØØ
N6238785RCØ5821

PAID BY

CHECK NUMBER | ON TREASURER OF THE UNITED STATES | CHECK NUMBER | ON (Name of bank)

CASH $ | DATE | PAYEE ³

¹ When stated in foreign currency, insert name of currency.
² If the ability to certify and authority to approve are combined in one person, one signature only is necessary, otherwise the approving officer will sign in the space provided, over his official title.
³ When a voucher is receipted in the name of a company or corporation, the name of the person writing the company or corporate name, as well as the capacity in which he signs, must appear. For example: "John Doe Company, per John Smith, Secretary", or "Treasurer", as the case may be.

PER

TITLE

☆ U.S. GOVERNMENT PRINTING OFFICE: 1979—311-153/5167

Remit

NWMAR130214

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washingotn, D. C. 20390

Attn: Payment Certification Division

DATE April 1, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-H
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 8

Progress Billing for Work Performed to date.

Contract Value including Modifications through 3-0	$8,407,069.00
Less: Prior Billings Nos. 1 - 7	6,587,952.00 SAM 4/2/85 ~~(7,187,951.00)~~
LESS: 1% LD BACK REDUCTION	(600,000) SAM 4/2/85
TOTAL AMOUNT DUE THIS INVOICE:	~~$1,219,118.00~~ $ 1,219,118.00 SAM 4/2/85

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the specifications or [illegible] order.

Stephen A. Madden
[illegible]

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130215

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 216
02 April 1985

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 8

The following breakdown should be used for payment of the attached invoice:

	5180 ACCOUNT	5189 ACCOUNT	5192 ACCOUNT
ORIGINAL CONTRACT VALUE	$2,775,472.00	$3,226,664.00	$ 0
CHANGE ORDER VALUE THROUGH JOM 3 0	641,326.00	1,002,492.00	761,115.00
TOTAL TO DATE	$3,416,798.00	$4,229,156.00	$ 761,115.00
LESS: HOLDBACK REDUCTION	(300,000.00)	(300,000.00)	
LESS: PRIOR BILLINGS	(2,837,455.00)	(3,038,594.00)	711,902.00
BILLING FOR CURRENT PERIOD	$ 279,343.00	$ 890,562.00	$ 49,213.00

Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-4E2X, M-5, M-10-3
File

SAM/jlh
Attachment

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

RECEIVED 4-01-85

April 1, 1985
Serial No. 2665-145

MSC CONREP
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 8

Gentlemen:

Enclosed for your approval is our invoice for Progress Billing No. 8 under the subject contract.

After your approval, please return the invoice to me for processing.

Very truly yours,

Mark McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A. Madden
COMSC CONREP

	Initials	Date
Prepared By		
Approved By		

OBSERVATION ISLAND BUILDING # 8

	1	2	3	4	5	6
CONTRACT MOD	5180	5189			TOTAL	
2K	49213					
2L	19643					
2M	21953					
2N	24550					
2O	24128					
2P	49981					
2Q	16963					
2R	9988					
2S	30170					
2T		24544				
2U		18438				
2V		52395				
2W		342910				
2X		128890				
2Y		71424				
2Z		22032				
3A		23775				
3B		18681				
3C		22528				
3D		54363				
3E		19322				
3F	19769					
3G	23530					
3H	29697					
3I	16971	16971				
3J	<15500>	<15500>				
3K		24428				
3L		23893				
3M		29480				
3N		4488				
3O	7500	7500				
	328556	890562			1219118	

SHIP REPAIRERS
NERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE March 21, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-F
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 7

Progress Billing for Work Performed to date.

AMT VERIFIED BY LCDR SHELBURNE MSC 3/21/85

Contract Value including Modifications through 2J	$7,187,951.00
Less: Net amounts paid by MSC through Billing No. 6	(4,903,489.15)
Amount Presently Payable:	$2,284,461.85
Less: Hold Back Reduction, per telecon R.W. Beil/ M. K. McGirr 3/21/85	(600,000.00)
TOTAL AMOUNT DUE THIS INVOICE:	$1,684,461.85

INCLUDES REBILLING FOR $ 258,073.38 PRIOR RETENTIONS

7

✓ APPROACH & AMT APPROVED BY RON BEIL 3/21/85
(SAID NORMALLY WOULD HOLD BACK 15000, BUT AS 600,00 IS HELD BACK - NO FURTHER HOLD BACK IS REQUIRED)

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

6906

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

PAID
SYMBOL 7726
APR 04 1985
MSC WASH., D.C.
ACCTS NFC WASH., D.C.
5101

DATE March 21, 1985
2665
N00033-85-J0-001
N00033-70-C-0075
2665-F
TERMS Net

CUSTOMER CODE NUMBER 322(00387)

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 7

Progress Billing for Work Performed to date.

Contract Value including Modifications through 2J	$7,187,951.00
Less: Net amounts paid by MSC through Billing No. 6 ✓	(4,903,489.15)
Amount Presently Payable:	$2,284,461.85
Less: Hold Back Reduction, per telecon R.W. Beil/ M. K. McGirr 3/21/85	(600,000.00)
TOTAL AMOUNT DUE THIS INVOICE:	$1,684,461.85

Invoice Record
Page 76
Line 7

Net amount approved for payment

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID NOT TO EXCEED 1½% PER MONTH

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130220

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

March 21, 1985
Serial No. 2665-132

RECEIVED 3-25-85

MSC CONREP
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 7

Gentlemen:

Enclosed for your approval is our invoice for Progress Billing No. 7 under the subject contract.

After your approval, please return the documents to me.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract [illegible]

Stephen A. Madden
COMSC CONREP

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 203
25 March 1985

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 7

The following breakdown should be used for payment of the attached invoice:

	5180 ACCOUNT	5189 ACCOUNT	5192 ACCOUNT
ORIGINAL CONTRACT VALUE	$2,775,472.00	$3,226,664.00	$ 0
CHANGE ORDER VALUE THROUGH JOM 2 J	361,983.00	111,930.00	711,902.00
TOTAL TO DATE	$3,137,455.00	$3,338,594.00	711,902.00
LESS: HOLDBACK REDUCTION	(300,000.00)	(300,000.00)	
LESS: PRIOR BILLINGS	(2,177,467.65)	(2,726,021.50)	0
BILLING FOR CURRENT PERIOD	$ 659,987.35	$ 312,572.50	$ 711,902.00

Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-4E2X, M-5, M-10-3
File

SAM/jlh
Attachment

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

March 21, 1985
Serial No. 2665-134

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 7

Gentlemen:

Enclosed is our invoice for Progress Billing No. 7 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

March 21, 1985
Serial No. 2665-133

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 7

Gentlemen:

Enclosed is our invoice for Progress Billing No. 7 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward the invoice and the enclosed cover letter to Commander, Military Sealift Command in Washington, D. C. An addressed, postage-paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

17

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
ENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE March 21, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-G
TERMS

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

IN-HOUSE CREDIT MEMO

Credit issued for 5% retention held on the following invoices.
The retention was rebilled as part of Billing No. 7.

ORIGINAL INVOICE NO.	AMOUNT
2665-B	$90,689.82
2665-C	71,689.82
2665-D	56,649.19
2665-E	39,099.70
TOTAL AMOUNT OF THIS CREDIT MEMO:	($258,078.38)

CREDIT MEMO PRIOR RETENTION

Partial
Mc Gin

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130225

SHIP REPAIRERS
ENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander,
Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

CUSTOMER CODE NUMBER: 32220

DATE March 11, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-E
TERMS Net

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 6

Progress Billing for Work Performed to Date.

Gross Billing Value This Invoice:	$781,993.90
Less: 5% Retention	(39,099.70)
Amount Due and Payable This Invoice:	$742,894.20

6

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

PAID
SYMBOL 7726
MAR 19 1985
(62387) MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

6290

Commander,
Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE March 11, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-E
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 6

Progress Billing for Work Performed to Date.

Gross Billing Value This Invoice:	$781,993.90
Less: 5% Retention	(39,099.70)
Amount Due and Payable This Invoice:	$742,894.20

Net amount approved for payment

PURSUANT TO AUTHORITY VESTED IN ME,
I CERTIFY THAT THIS VOUCHER IS
CORRECT AND PROPER FOR PAYMENT.

03/13/85
R.W. BEIL, CONTRACT ADMINISTRATOR

Stephen A. Madden

AA 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ~~5189~~ 2276 $196,381.84
N6238785RCØ5821
AB 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ518Ø $546,512.36
N6238785RCØ5821

Invoice Record
Page 61
Line 16

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130227

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 197
12 March 1985

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 6

The following breakdown should be used for payment of the attached invoice:

	5189 ACCOUNT	5180 ACCOUNT
LABOR	$1,841,663.00	$1,183,439.00
MATERIAL RECEIVED	815,260.00	436,920.00
SUBCONTRACTOR SERVICES	149,212.00	569,856.53
STORES ISSUED	63,361.32	101,855.68
TOTAL TO DATE	$2,869,496.32	$2,292,071.21
LESS: 5%	* (143,474.81) 2.98	(114,603.56)
LESS: PRIOR BILLINGS	(2,529,639.66)	(1,630,955.29)
BILLING FOR CURRENT PERIOD	$ 196,381.85 7 98	$ 546,512.36

Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-4E2X, M-5, M-10-3
File

* Rounding correction made 3/13/85 RWB

SAM/jlh
Attachment

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

BACKUP FOR PROGRESS BILLING NO. 6

DATE: March 11, 1985

Hours Earned through March 1, 1985 110,376

Earned Hour Base ÷ 124,445 = 88.7 %

Total Labor Value in Contract $ 3,410,487

Job to Date Billing Value:

Labor	88.7 % x $ 3,410,487	=	$ 3,025,102.00
Material Purchases Received			$ 1,252,180.00
Subcontractor Services Performed			$ 719,068.53
Stores Issued			$ 165,217.00
Total			$ 5,161,567.53

	To Date As Computed Above	Amount Previous Progress Billing	Amount Current Billing
Billing Value	$ 5,161,567.53	$ 4,379,573.63	$ 781,993.90
Less Retention (5%)	(258,078.38)	(218,978.68)	(39,099.70)
Net Amount Billed	$ 4,903,489.15	$ 4,160,594.95	$ 742,894.20

Stephen A. Mabbe

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 197
12 March 1985

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 6

The following breakdown should be used for payment of the attached invoice:

	5189 ACCOUNT	5180 ACCOUNT
LABOR	$1,841,663.00	$1,183,439.00
MATERIAL RECEIVED	815,260.00	436,920.00
SUBCONTRACTOR SERVICES	149,212.00	569,856.53
STORES ISSUED	63,361.32	101,855.68
TOTAL TO DATE	$2,869,496.32	$2,292,071.21
LESS: 5%	(143,474.81)	(114,603.56)
LESS: PRIOR BILLINGS	(2,529,639.66)	(1,630,955.29)
BILLING FOR CURRENT PERIOD	$ 196,381.85	$ 546,512.36

Stephen A. Madden
Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-4E2X, M-5, M-10-3
File

SAM/jlh
Attachment

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

BACKUP FOR PROGRESS BILLING NO. 6

DATE: March 11, 1985

Hours Earned through	March 1, 1985	110,376		
Earned Hour Base		÷ 124,445	=	88.7 %
Total Labor Value in Contract		$ 3,410,487		

Job to Date Billing Value:

Labor	88.7 % x $ 3,410,487	=	$ 3,025,102.00
Material Purchases Received			$ 1,252,180.00
Subcontractor Services Performed			$ 719,068.53
Stores Issued			$ 165,217.00
Total			$ 5,161,567.53

	To Date As Computed Above	Amount Previous Progress Billing	Amount Current Billing
Billing Value	$ 5,161,567.53	$ 4,379,573.63	$ 781,993.90
Less Retention (5%)	(258,078.38)	(218,978.68)	(39,099.70)
Net Amount Billed	$ 4,903,489.15	$ 4,160,594.95	$ 742,894.20

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A Madden
COMSC CONREP

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

March 11, 1985
Serial No. 2665-125

MSC CONREP
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 6

Gentlemen:

Enclosed for your approval are the invoice and backup documentation supporting our Progress Billing No. 6 under the subject contract.

After your approval, please return both documents to me.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

March 11, 1985
Serial No. 2665-127

Commander,
Military Sealift Command (M-56)
Washington, D. C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 6

Gentlemen:

Enclosed is the invoice and backup information supporting our Progress Billing No. 6 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

March 11, 1985
Serial No. 2665-126

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 6

Gentlemen:

Enclosed are the invoice and backup information supporting our Progress Billing No. 6 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward both documents and the enclosed cover letter to Commander, Military Sealift Command, Washington, D.C. An addressed, postage-paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

SUBCONTRACTORS

0·00 *

35,550·00 +
53,350·00 +
25,400·00 +
53,710·80 +
39,903·40 +
63,546·00 +
24,391·80 +
50,282·64 +
131·60 +
49,055·00 +
10,080·00 +
10,944·00 +
29,466·00 +
12,096·59 +
18,748·26 +
13,622·40 +
3,840·00 +
475·00 +
1,818·90 +
22,825·00 +
4,668·04 +
51,399·10 +
21,096·00 +
42,372·00 +
10,236·00 +
39,049·00 +
31,011·00 +
719,068·53 *

RRIS GURALNICK ASSOCIATES, INC.

. ARCHITECTS MARINE ENGINEERS

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

9 November 1984
J.O. No. 1380
Invoice No. 10850

Vorks

3

yable

663

APPROVED FOR PAYMENT

INITIALS	DATE
DCJ	12/14/84

INTERIM BILLING

es rendered on the USNS OBSERVATION ISLAND - Inception

	Est. % Complete	Contract Amount	Amount Billed
	15%	$237,000.00	$35,550.00
	-0-	17,000.00	-0-
	-0-	7,200.00	-0-
larkings	-0-	2,500.00	-0-
	-0-	4,300.00	-0-
	-0-	6,800.00	-0-
s	-0-	5,100.00	-0-
	-0-	33,900.00	-0-
	-0-	1,600.00	-0-
TOTALS	N/A	$315,400.00	$35,550.00
Less Amounts Previously Invoiced			-0-
TOTAL AMOUNT OF THIS INVOICE			$35,550.00

For any questions/problems resulting from this invoice please contact either Bruce Dollinger or Liz Phipps in Accounting at (415) 543-8650

IN MP
3/8

JOB500 JOB COST AND STATUS REPORT RUN DATE: 03-08-85

JOB #: 2665
PRJ MGR: MCMURRY
AS-OF: 03/08/85

OBSERVATION ISLAND
MILITARY SEALIFT COMMAND PAC.
JOB COMPL DATE: 0

ACCTG START: 101184
ARRIVAL: 850107
SCHD END: 850318

AVAILABILITY DAYS: 70 DAYS USED: 60 LINEAR PCT USED: 85.7

	CURRENT CONTRACT BUDGET	CURRENT PERFORMANCE BUDGET	ACTUAL DIRECT COST	INVOICED WITH NO GEN & ADMIN	COMMITTED WIP/STD COST	INVOICED WIP/STD COST	CURRENT BILLABLE
1 PRODN LABOR $	3,295,846.00	4,787,647.00	2,300,789.38	3,664,191.69	4,836,789.38	4,836,789.38	4,121,000.00
2 PREM LABOR	114,641.00	114,641.00	50,640.66	50,640.66	50,640.66	50,640.66	65,007.00
3 CRFT MILAGE	0.00	0.00	8.20	8.20	8.20	8.20	8.20
4 SUBCONTRACT $	921,016.00	1,281,244.00	8,813.02	8,813.02	54,458.02	8,813.02	54,458.02
5 PORT OF PTLD $	0.00	0.00	50,414.24	50,414.24	50,414.24	50,414.24	50,414.24
6 PO MATERIAL $	1,858,994.00	**********	1,662,002.67	1,662,002.67	2,444,657.35	1,662,002.67	2,444,657.35
7 INVTY ISSUE $	0.00	0.00	113,929.33	113,929.33	113,929.33	113,929.33	113,929.33
8 (SALVAGE $)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 MISC EXPENSE $	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 OTHER COSTS $	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11 JOB CREDITS $	0.00	0.00	- 4,270.07	- 4,270.07	- 4,270.07	- 4,270.07	0.00
12 JOB TOTALS $	6,190,497.00	**********	4,182,327.44	5,549,999.81	7,550,897.19	6,722,597.51	6,849,474.14

3,413,487 WITH $ MOD'S

NWMAR130236

JOB#: 2665 JOB NAME:

ITEM	WH	DOC. #	DATE	QNTY.	U/M	*---------- DESCRIPTION ----------*		AMOUNT	VALUE
962-	15	20297-13	02/07/85	10.00	FT	CHAIN	1/4" PROOF COIL LINK, PLTD	7.50	0.00
962-	15	20297-15	02/07/85	4.00	FT	CHAIN	#10 BLU-KROME, SINGLE JACK	0.96	0.00
962-	17	11101-02	02/19/85	5.00	FT	ROPE, WIRE	1/4" , 6 X 19, GALV	0.90	0.00
962-	17	11101-03	02/19/85	2.00	EA	SHACKLE, ANCH, SCRW PIN, GAL	3/8"	2.96	0.00
							ITEM 962- TOTAL:	448.50	0.00
964-	15	20258-01	01/31/85	2.00	EA	ELBOW, 90*, LR, STD BW	3"	13.04	0.00
964-	15	20258-02	01/31/85	1.00	EA	ELBOW, 45*, STD BW	3"	4.85	0.00
964-	15	20258-03	01/31/85	1.00	EA	FLANGE, 150#, SOW, R/F	3"	10.22	0.00
							ITEM 964- TOTAL:	28.11	0.00
							JOB 2665 TOTAL	165,216.63	2,879.18

INODE	W	NAVY NUMBER	GRUP	PCT	EARND HOUR
1430D		7-1430	63	100	63.00
1430E		7-1430	259	100	259.00
1430F		7-1430	338	85	287.30
1430G		7-1430	83	0	0.00
1431D		7-1431	26	50	13.00
1431F		7-1431	44	50	22.00
1431G		7-1431	8	50	4.00
1433C		7-1433	407	100	407.00
1433D		7-1433	90	100	90.00
1433E		7-1433	303	75	227.25
1433F		7-1433	415	75	311.25
1433G		7-1433	98	0	0.00
1434[illegible]		7-1434	170	60	102.00
143[illegible]		7-1435	14	100	14.00
1435D		7-1435	3	100	3.00
1435E		7-1435	13	90	11.70
1435F		7-1435	15	90	13.50
1435G		7-1435	6	50	3.00
1436L		7-1436	152	90	136.80
1437D		7-1437	93	100	93.00
1437F		7-1437	183	100	183.00
1437G		7-1437	29	100	29.00
1438C		7-1438	82	100	82.00
1438E		7-1438	81	100	81.00
1438F		7-1438	82	100	82.00
1438G		7-1438	25	100	25.00
1439D		7-1439	118	100	118.00
1439F		7-1439	202	100	202.00
1439G		7-1439	17	25	4.25
1440C		7-1440	135	100	135.00
1440E		7-1440	144	100	144.00
1440F		7-1440	143	100	143.00
1440G		7-1440	52	100	52.00
1441D		7-1441	4	100	4.00
1441[illegible]		7-1441	7	100	7.00
1442[illegible]		7-1441	2	100	2.00
1442E		7-1442	119	25	29.75
1442G		7-1442	86	0	0.00
			~~123,910~~ 124,445		110,376.10

~~89.1%~~ 88.72

Difference due to rounding of base in computer.

ITEM	P.O. DOLLARS	STAT	RECEIVING DOLLARS	STAT	INVOICED DOLLARS	STAT	R.T.V. DOLLARS	STAT	CREDITED DOLLARS	STAT
1546	4,010.49	E	10.49		0.00		0.00	E	0.00	
1547	2,914.62	E	487.87		20.72		0.00	E	0.00	
1548	7,750.14	E	4,702.88		1,874.09		0.00	E	0.00	
1549	3,446.81	E	3,088.64		295.21		0.00	E	0.00	
1550	1,027.10	E	1,027.10	F	0.00		606.90	E	0.00	N
1553	621.74	C	166.74		584.98		0.00	E	0.00	
1554	3,531.46	C	3,531.46	F	0.00		0.00	E	0.00	
1555	1,141.36	E	541.36		0.00		0.00	E	0.00	
1556	9,200.00	E	0.00		0.00		0.00	E	0.00	
1557	4,290.00	C	4,290.00	F	0.00		0.00	E	0.00	
1558	11,890.00	E	0.00		0.00		0.00	E	0.00	
1559	14,494.00	C	0.00		0.00		0.00	E	0.00	
1560	15,042.30	E	342.30		0.00		0.00	E	0.00	
1562	151.20	C	151.20	F	0.00		0.00	E	0.00	
JOB 2665 TOTALS:										
	2,421,900.74	E	1,252,179.96		1,721,229.93		7,503.32	E	4,270.07	N

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D.C. 20390

Attn: Payment Certification Division

DATE February 21, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-D
TERMS net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 5

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

Gross Billing Value This Invoice:	$1,132,983.84
Less: 5% Retention	(56,649.19)
Amount Due & Payable This Invoice:	$1,076,334.65

5

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

REPRODUCED AT GOVERNMENT EXPENSE

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

5830

Commander, Military Sealift Command (M-56)
Washington, D.C. 20390

Attn: Payment Certification Division

CUSTOMER CODE NUMBER: 32220

DATE February 21, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-D
TERMS net

Duns No. 00-902-8580

PAID
SYMBOL 7726
MAR 06 1985
(62387) MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 5

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

Gross Billing Value This Invoice:	$1,132,983.84
Less: 5% Retention	(56,649.19)
Amount Due & Payable This Invoice:	$1,076,334.65

PURSUANT TO AUTHORITY VESTED IN ME, I CERTIFY THAT THIS VOUCHER IS CORRECT AND PROPER FOR PAYMENT.

Net amount approved for payment

02/26/85
R.W. BEIL, CONTRACT ADMINISTRATOR

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and this order.

COMSC CONREP

AA 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ5189 $471,658.37
N6238785RCØ5821
AB 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ518Ø $6Ø4,676.28
N6238785RCØ5821

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130241

REPRODUCED AT GOVERNMENT EXPENSE

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 170
25 February 1985

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 5

The following breakdown should be used for payment of the attached invoice:

	5189 ACCOUNT	5180 ACCOUNT
LABOR	$1,743,076.00	$ 939,095.00
MATERIAL RECEIVED	740,878.00	334,928.00
SUBCONTRACTOR SERVICES	115,771.59	368,259.04
STORES ISSUED	63,053.00	74,513.00
TOTAL TO DATE	$2,662,778.59	$1,716,795.04
LESS: 5%	(133,138.93)	(85,839.75)
LESS: PRIOR BILLINGS	(2,057,981.29)	(1,026,279.01)
BILLING FOR CURRENT PERIOD	$ 471,658.37	$ 604,676.28

Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-4E2X, M-5, M-10-3
File

SAM/jlh
Attachment

REPRODUCED AT GOVERNMENT EXPENSE

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

BACKUP FOR PROGRESS BILLING NO. 5

DATE: February 21, 1985

Hours Earned through February 15, 1985 — 99,556

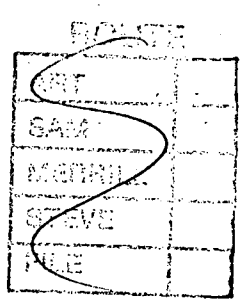
Earned Hour Base ÷ 124,445 = 80 %

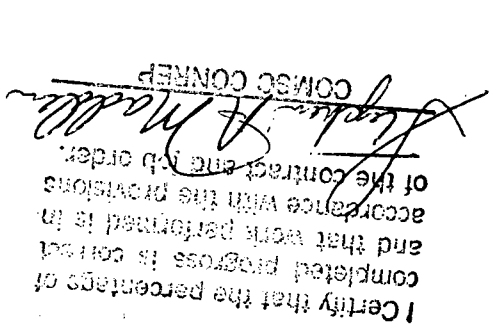
Total Labor Value in Contract $ 3,352,714

Job to Date Billing Value:

Labor 80.0 % x $ 3,352,714	=	$ 2,682,171.00
Material Purchases Received		$ 1,075,806.00
Subcontractor Services Performed		$ 484,030.63
Stores Issued		$ 137,566.00
Total		$ 4,379,~~6~~573.63 *

	To Date As Computed Above	Amount Previous Progress Billing	Amount Current Billing
Billing Value	$ 4,379,573.63	$ 3,246,589.79	$ 1,132,983.84
Less Retention (5%)	(218,978.68)	(162,329.49)	(56,649.19)
Net Amount Billed	$ 4,160,594.95	$ 3,084,260.30	$ 1,076,334.65





* Per phone con with Jerry McMurry NWMIW 2-21-85

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

BACKUP FOR PROGRESS BILLING NO. 5

DATE: February 21, 1985

Hours Earned through February 15, 1985 — 99,556 ✓

Earned Hour Base ÷ 124,445 X = 80 ✓ %

Total Labor Value in Contract $ 3,352,714 X

Job to Date Billing Value:

Labor 80.0 % x $ 3,352,714	=	$ 2,682,171.00
Material Purchases Received		$ 1,075,806.00
Subcontractor Services Performed		$ 484,030.63
Stores Issued		$ 137,566.00
Total		$ 4,379,673.63

	To Date As Computed Above	Amount Previous Progress Billing	Amount Current Billing
Billing Value	$ 4,379,573.63	$ 3,246,589.79	$ 1,132,983.84
Less Retention (5%)	(218,978.68)	(162,329.49)	(56,649.19)
Net Amount Billed	$ 4,160,594.95	$ 3,084,260.30	$ 1,076,334.65

X - Per contract we cannot bill the labor base until it has been formally signed in as mods to contract. At 2/22 ~~they~~ there are only 2 mods which are immaterial (< 20,000 in total, not all labor). As such we used the original labor hours of value as specified in the contract ✓ arrived at by prime estimate by JCM & Ron Bail on 2/22. Per Gwerb analysis, he can support ≈ 78% - used 80%.

NWMAR130244

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D.C. 20390

Attn: Payment Certification Division

DATE February 21, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-D
TERMS net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 5

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

Gross Billing Value This Invoice:	~~$1,584,499.84~~	1,132,983.84
Less: 5% Retention	~~(79,224.99)~~	< 56,649.19>
Amount Due & Payable This Invoice:	~~$1,505,274.85~~	1,076,334.65

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

BACKUP FOR PROGRESS BILLING NO. 5

DATE: February 21, 1985

Hours Earned through February 15, 1985 ~~111,692~~ 99,556

Earned Hour Base ~~191,726~~ 124445 = ~~73.61~~ 80 % %

Total Labor Value in Contract $ 4,257,148

Job to Date Billing Value:

Labor ~~73.61~~ 80.0 %	x $ ~~4,257,148~~ 3,352,714	=	$ ~~3,133,687.00~~ 2,682,171.00
Material Purchases Received			$ 1,075,806.00
Subcontractor Services Performed			$ 484,030.63
Stores Issued			$ 137,566.00
Total			$ ~~4,831,089.63~~ 4,379,573.63

	To Date As Computed Above	Amount Previous Progress Billing	Amount Current Billing
Billing Value	$ ~~4,831,089.63~~ 4,379,573.63	$ 3,246,589.79	$ ~~1,584,499.84~~ 1,132,983.84
Less Retention (5%)	(~~241,554.48~~ 218,978.68)	(162,329.49)	(~~79,224.99~~ 56,649.19)
Net Amount Billed	$ ~~4,589,535.15~~ 4,160,594.95	$ 3,084,260.30	$ ~~1,505,274.85~~ 1,076,334.65

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

February 21, 1985

Serial 2665-107

MSC CONREP
Swan Island Ship Repair Yard
5555 N. Channel Ave.
Portland, Oregon 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 5

Gentlemen:

Enclosed for your approval are the invoice and backup documentation supporting our Progress Billing No. 5 under the subject contract.

After your approval, please return both documents to me.

Very truly yours,

NORTHWEST MARINE IRON WORKS

Mark

Mark K. McGirr
Controller

MKM:ms
enclosure

cc: Admin (2)
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

February 21, 1985

Serial 2665-108

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 5

Gentlemen:

Enclosed are the invoice and backup information supporting our Progress Billing No. 5 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward both documents and the enclosed cover letter to Commander, Military Sealift Command in Washington, D.C. An addressed, postage paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

NORTHWEST MARINE IRON WORKS

Mark K McGirr

Mark K. McGirr
Controller

MKM:ms
enclosure

cc: Admin (2)
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

February 21, 1985

Serial 2665-109

Commander, Military Sealift Command (M-56)
Washington, D.C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing No. 5

Gentlemen:

Enclosed is the invoice and backup information supporting our Progress Billing No. 5 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

NORTHWEST MARINE IRON WORKS

Mark K. McGirr

Mark K. McGirr
Controller

MKM:ms
enclosure

cc: Admin (2)
File
Controller

ITEM	NAVYNO		PRODN HOURS	OT HOURS	ESTIM HOURS	% OF EST	% ERND		PAGE 0016
1547	1-1547	N	16.00	0.00	440.00	3.6%	10.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			16.00	0.00	440.00	3.6%	10.0%		
1548	3-1548	N	143.00	2.50	996.00	14.4%	10.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			143.00	2.50	996.00	14.4%	10.0%	-853.0	434.0 HOURS OVERBUDGET
1549	3-1549	N	218.00	2.00	1554.00	14.0%	10.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			218.00	2.00	1554.00	14.0%	10.0%	-1336.0	626.0 HOURS OVERBUDGET
1550	1-1550	N	1.00	0.00	0.00	100.0%	0.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			1.00	0.00	0.00	100.0%	0.0%		
1551	3-1551	N	94.50	1.50	210.00	45.0%	50.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			94.50	1.50	210.00	45.0%	50.0%		
1553	3-1553	N	120.50	0.50	0.00	$12050%	0.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			120.50	0.50	0.00	$12050%	0.0%		
1554		N	1.00	0.00	0.00	100.0%	0.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			1.00	0.00	0.00	100.0%	0.0%		
1555		N	138.00	1.00	0.00	$13800%	0.0%		
			0.00	0.00	0.00	0.0%	0.0%		
			138.00	1.00	0.00	$13800%	0.0%		

TOTAL HOURS IN CONTRACT: 151726.0 TOTAL HOURS EARNED: 111692

CONTRACT PER CENT COMPLETE = 73.61

JOB800 JOB COST AND STATUS REPORT RUN DATE: 02-20-85

JOB #: 2665 OBSERVATION ISLAND ACCTG START: 101184
PRJ MGR: MCMURRY MILITARY SEALIFT COMMAND PAC. ARRIVAL: 850107
AS-OF: 02/19/85 JOB COMPL DATE: 0 SCHD END: 850318

AVAILABILITY DAYS: 70 DAYS USED: 43 LINEAR PCT USED: 61.4

		CURRENT CONTRACT BUDGET	CURRENT PERFORMANCE BUDGET	ACTUAL DIRECT COST	INVOICED WITH NO GEN & ADMIN	COMMITTED WIP/STD COST	INVOICED WIP/STD COST	CURRENT BILLABLE
			4257148					
1 PRODN LABOR	$	3223246.00	4143622.00	1873866.95	2982484.40	3936394.95	3936394.95	3351608.00
2 PREM LABOR	$	117144.00	113526.00	36393.85	36393.85	36393.85	36393.85	46557.00
3 CRFT MILAGE	$	0.00	0.00	4.80	4.80	4.80	4.80	4.80
4 SUBCONTRACT	$	773874.00	1061920.00	8236.90	8236.90	36841.90	8236.90	36841.9[illegible]
5 PORT OF PTLD	$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6 PO MATERIAL	$	1872218.00	2060802.00	1032270.40	1032270.40	2270946.46	1032270.40	2270946.46
7 INVTY ISSUE	$	0.00	0.00	113929.33	113929.33	113929.33	113929.33	113929.33
8 (SALVAGE	$)	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9 MISC EXPENSE	$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10 OTHER COSTS	$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11 JOB CREDITS	$	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12 JOB TOTALS	$	5986482.00	7379870.00	3064702.23	4173319.67	6394511.28	5127230.23	5819887.49
13 AVE $/HR NO PREM		26.00	27.31	14.54	23.14	30.54	EST CMPL WIP COST=	0.00
14 AVE $/HR INCL OT		26.94	28.06	14.82	23.42	30.82	COMMITTED NO G&A =	5440600.73

NWMAR130251

ITEM	P.O. DOLLARS	STAT	RECEIVING DOLLARS	STAT	INVOICED DOLLARS	STAT	R.T.V. DOLLARS	STAT	CREDITED DOLLARS	STAT
1522	835.00	C	0.00		0.00		0.00	E	0.00	
1523	200.00	E	0.00		0.00		0.00	E	0.00	
1524	1,030.00	E	0.00		0.00		0.00	E	0.00	
1524A	440.00	E	0.00		0.00		0.00	E	0.00	
1525	450.00	E	250.00		0.00		0.00	E	0.00	
1527	46.36	C	46.36	F	0.00		0.00	E	0.00	
1528	490.40	C	490.40	F	0.00		0.00	E	0.00	
1531	6,461.75	C	1,002.55		2,710.00		0.00	E	0.00	
1533	7,591.93	E	5,239.13		1,557.00		0.00	E	0.00	
1535	1,382.80	C	0.00		0.00		0.00	E	0.00	
1537	619.00	C	0.00		0.00		0.00	E	0.00	
1539	17,193.44	E	3,660.20		4,999.00		0.00	E	0.00	
1540	160.00	C	0.00		0.00		0.00	E	0.00	
1541	8,500.00	C	0.00		0.00		0.00	E	0.00	
1542	5,440.00	C	0.00		0.00		0.00	E	0.00	
1544A	767.00	C	0.00		0.00		0.00	E	0.00	
1545	3,649.04	E	493.04		0.00		0.00	E	0.00	
1546	4,000.00	E	0.00		0.00		0.00	E	0.00	
1547	2,341.87	E	294.67		0.00		0.00	E	0.00	
1548	6,801.48	E	3,538.13		0.00		0.00	E	0.00	
1549	2,522.95	E	2,003.28		0.00		0.00	E	0.00	
1550	606.90	E	0.00		0.00		0.00	E	0.00	
1553	621.74	C	127.38		0.00		0.00	E	0.00	
1555	1,141.36	E	0.00		0.00		0.00	E	0.00	
JOB 2665 TOTALS:	2,214,777.07	E	1,075,806.06		1,106,987.63		6,496.20	E	0.00	N

SUBCONTRACTORS

0.00 *

35,550.00 +
53,350.00 +
25,400.00 +
53,710.80 +
39,903.40 +
63,546.00 +
49,055.00 +
10,080.00 +
10,944.00 +
29,466.00 +
12,096.59 +
18,748.26 +
3,840.00 +
475.00 +
1,818.90 +
4,668.04 +
50,282.64 +
21,096.00 +
484,030.63 *

0.00 *

2665

S GURALNICK ASSOCIATES, INC.

HITECTS MARINE ENGINEERS

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

9 November 1984
J.O. No. 1380
Invoice No. 10850

s

le

APPROVED FOR PAYMENT

INITIALS	DATE
DRJ	12/14/84

INTERIM BILLING

:endered on the USNS OBSERVATION ISLAND - Inception

	Est. % Complete	Contract Amount	Amount Billed
	15%	$237,000.00	$35,550.00
Liaison	-0-	17,000.00	-0-
System Technical Manual	-0-	7,200.00	-0-
Name Plates, Notices & Markings	-0-	2,500.00	-0-
Weight Estimate	-0-	4,300.00	-0-
Stability Tests	-0-	6,800.00	-0-
Trim & Stability Booklets	-0-	5,100.00	-0-
Selected Records	-0-	33,900.00	-0-
Annotation	-0-	1,600.00	-0-
TOTALS	N/A	$315,400.00	$35,550.00
Less Amounts Previously Invoiced			-0-
TOTAL AMOUNT OF THIS INVOICE			$35,550.00

For any questions/problems resulting from this invoice please contact either Bruce Dollinger or Liz Phipps in Accounting at (415) 543-8650

JOB#: 2665 JOB NAME:

ITEM	WH	DOC. #	DATE	QNTY.	U/M	*---------- DESCRIPTION ----------*	AMOUNT	VALUE
						JOB 2665 TOTAL:	137,566.30	1,200.75

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

BACKUP FOR PROGRESS BILLING NO. N/A

DATE: 2/7/85

Hours Earned thru 2/5/85 81566 = 56 %

Earned Hour Base ÷ 145750

Contract Value

Labor	$ 3472,021	
~~Material~~	~~$~~	N/A
~~Subcontractors~~	~~$~~	
~~Total~~	~~$~~	

2/6 POTENTIAL BILLING - 2/1 PROGRESSIVE

Job To Date Billing Value

Labor 56 % X $ 3472021 =	$ 1,944,332	
Material Purchases Received	$ 815,477	
Subcontractor Services Performed (IN REPORT ONLY 182,678 CODE 18)	$ 311,052	+
Stores Issued	$ 106,736	
Total	$ 3,177,597	(3,246,589 ON PRIOR BILLING)

Billing Value as Computed Above	$ 3177597
Less: Amounts Previously Retained	($ 162,329)
Less: Amounts Previously Billed to Government	($3084,260)
Current Period Billing (including retention)	$ <68,992>

NOTE - BILLING WAS NOT MADE AS IT APPEARS NEGATIVE. REASON FOR NEGATIVE IS THAT NOT ALL ADD. LABOR FOR ADD ITEMS WAS IN COMPUTER WHILE HOURS BASE WAS. SEE 2nd PAGE THAT FOLLOWS. WE WILL GET CAUGHT UP & BILL IN 2 WEEKS ON 2/20/85/MG

ITEM	NAVYNO	PRODN HOURS	OT HOURS	ESTIM HOURS	% OF EST	% ERND	PAGE 0016
1551	N	0.00	0.00	0.00	0.0%	0.0%	
		0.00	0.00	0.00	0.0%	0.0%	
		0.00	0.00	0.00	0.0%	0.0%	
1553	N	0.00	0.00	0.00	0.0%	0.0%	
		0.00	0.00	0.00	0.0%	0.0%	
		0.00	0.00	0.00	0.0%	0.0%	

TOTAL HOURS IN CONTRACT: 145750.0 TOTAL HOURS EARNED: 81566

CONTRACT PER CENT COMPLETE = 55.96

JOB START

NWMAR130256

JOB800

JOB COST AND STATUS REPORT

RUN DATE: 02-07-85

JOB #: 2665
PRJ MGR: MCMURRY
AS-OF: 02/06/85

OBSERVATION ISLAND
MILITARY SEALIFT COMMAND PAC.
JOB COMPL: 0

ACCTG START: 101184
ARRIVAL: 10785
SCHD END: 31885

		CURRENT CONTRACT BUDGET	CURRENT PERFORMANCE BUDGET	ACTUAL DIRECT COST	INVOICED OUT-OF POCKET	COMMITTED WIP/STD COST	INVOICED WIP/STD COST	EARNED AMOUNTS	BILLABLE
1	PRODN LABOR $	3235570.00	3356530.00	3472021 1429836.22	2275960.70	3006420.22	3006420.22	0.00	2561949.00
2	PREM LABOR $	117144.00	115491.00	18573.57	18573.57	18573.57	18573.57	0.00	23535.00
3	CRFT MILAGE $	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	SUBCONTRACT $	775474.00	839722.00	0.00	0.00	28334.00	0.00	0.00	28334.00
5	PORT OF PTLD$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.
6	PO MATERIAL $	1873948.00	123971.00	587305.26	587305.26	1899104.97	587305.26	0.00	1899104.97
7	INVTY ISSUE $	0.00	0.00	60654.24	60654.24	60654.24	60654.24	0.00	60654.24
8	(SALVAGE $)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	MISC EXPENSE$	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	OTHER COSTS $	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	JOB CREDITS $	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	JOB TOTALS $	6002136.00	4435714.00	2096369.29	2942493.78	5013087.00	3672953.29	0.00	4573577.21
13	AVE PR$/H NOT	26.00	22.93	14.51	23.10	30.51	30.51	0.00	0.00
14	AVE PR$/H +OT	26.00	22.93	14.70	23.29	30.70	30.70	0.00	0.00

		CONTR BUDG	PERF BUDG	ACT/RCVD	% BUDG USED	% BUDG ERND	TOTAL EARNED	BUDG AT CMPL	VARIANCE
15	PRODN HOURS	124445.00	146371.00	98536.50	67.32	0.00	0.00	0.00	0.00
16	PREM HOURS	6508.00	6378.00	1307.50	20.50	0.00	0.00	0.00	0.00
17	PO MATL COUNT	573990.00	573990.00	566335.00	0.00	0.00	0.00	0.00	0.00

JOB 2665 TOTALS:

1,999,272.85	E	815,477.25	903,030.23	6,496.20	E	0.00 N

JOB#: 2665 JOB NAME:

ITEM	WH	DOC. #	DATE	QNTY.	U/M	DESCRIPTION		AMOUNT	VALUE
962-	01	10818-13	01/09/85	1.00	EA	TAPE	SCOTCH 33+,3/4" X 66'	1.65	0.00
962-	02	10932-04	01/24/85	320.00	FT	STEEL,H/R,ANGLE,BLK	1" X 1" X 1/8"	51.20	0.00
962-	02	11019-11	02/04/85	100.00	LFT	TUBING,POLYETHYLENE	6 MIL X 25" LAY FLAT	20.00	0.00
962-	11	10879-01	01/16/85	20.00	FT	STL,H/R,ANGLE,ABRATE&PAIN	2" X 2" X 1/4"	318.00	0.00
962-	11	10983-11	01/28/85	13.00	FT	STL,H/R,ANGLE,ABRATE&PAIN	3" X 3" X 3/8"	16.90	0.00
962-	11	10983-13	01/28/85	1.84	CWT	PLATE,MILD STEEL	1/4"	1.30	0.00
962-	11	11003-16	02/04/85	0.82	CWT	PLATE,MILD STEEL	1"	20.52	0.00
962-	15	20275-01	02/04/85	2.00	EA	WHSE SUPPLIES,MISC.	CHIPBOARD, 1/16"	0.82	0.00
							ITEM 962- TOTAL:	430.39	0.00
964-	15	20258-01	01/31/85	2.00	EA	ELBOW,90*,LR,STD BW	3"	13.04	0.00
964-	15	20258-02	01/31/85	1.00	EA	ELBOW,45*,STD BW	3"	4.85	0.00
964-	15	20258-03	01/31/85	1.00	EA	FLANGE,150#,SOW,R/F	3"	10.22	0.00
							ITEM 964- TOTAL:	28.11	0.00
							JOB 2665 TOTAL:	106,735.61	239.80

I----- DAILY FOR: 02-05-85 -----I I---------- JOB - TO - DATE AMOUNTS ----------I

JOB	ITEM	CR FT	S. T. HOURS	O. T. HOURS	PROD HOURS	S. T. HOURS	O. T. HOURS	TOTAL HOURS	BUDG ESTIM	PCT USED	BILLABLE AMOUNT		DISTRIB-UTION
2665	1542		REPAIR OF VINYL COVERED CHAIRS IN MESS AREAS										
		2	0.0	0.0	0.0	3.0	0.0	3.0			$ 78.00		
		17	0.0	0.0	0.0	4.5	0.0	4.5			$ 117.00		
	DIRECT TOTAL		0.0	0.0	0.0	7.5	0.0	7.5	8	93.8%	$ 195.00	REQ	195.00
2665	DIRECT TOTAL		2972.0	30.0	3002.0	97175.5	1306.5	98480.0	146371	67.3%	$2584001.80	REQ	2560480.00
												PRE	23521.80
OTHER DIRECT			38.0	0.5	38.5	55.5	1.0	56.5			$ 1487.00	REQ	1469.[illegible]
												PRE	18.00

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 30, 1985
Serial No. 2665-74

CONREP, USNS OBSERVATION ISLAND (T-AGM 23)
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

4

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed for your approval are the invoice and backup documentation supporting our progress billing No. 4 under the subject contract.

After your approval, please return both documents to me.

Very truly yours,

Mark McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

PAID
SYMBOL 7726
FEB 07 1985
MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

4731

Commander,
Military Sealift Command (MSC)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE January 30, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-C
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 4

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

Net amount approved for payment 1,361,153.73
TOTAL AMOUNT DUE THIS INVOICE: ~~$1,432,793.40~~

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130262

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander,
Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE	January 30, 1985
OUR JOB NO.	2665
CUSTOMER'S ORDER NO.	N00033-85-J0-001
CONTRACT NO.	N00033-70-C-0075
INVOICE NO.	2665-C
TERMS	Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 4

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

TOTAL AMOUNT DUE THIS INVOICE: ~~$1,432,793.40~~ 1,361,153.73

LESS CURRENT BILLING RETENTION (71,639.67)

TOTAL AMOUNT DUE THIS INVOICE 1,361,153.73

I Certify that the percentage of completed [illegible] is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A Madden
COMSC CONREP

COLLECTED 2/8 (9 DAYS)

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130263

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 4

DATE: January 30, 1985

Hours Expended thru January 28, 1985 — 77,823.5 = 62.54 %

Total Hours in the Contract — ÷ 124,445

Total Labor Value in the Contract — $ 3,352,714

Job to Date Billing Value

Labor	62.54 % X $ 3,352,714	=	$ 2,096,787.00
Material Purchases Received			$ 754,580.00
Subcontractor Services Performed			$ 311,051.79
Stores Issued			$ 84,171.00
Total			$ 3,246,589.79

I Certify that the percentage of completion progress is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A Madden
COMSC CONREP

Billing Value as Computed Above	$ 3,246,589.79
~~Less: Prior Billings~~	~~$ 1,813,796.39~~
~~Billing for Current Period~~	~~$ 1,432,793.40~~
LESS: 5%	$(162,329.49)
LESS: PRIOR BILLINGS	$(1,723,106.57)
BILLING FOR CURRENT PERIOD	$ 1,361,153.73

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 129
31 January 1985

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 4

The following breakdown should be used for payment of the attached invoice:

	5189 ACCOUNT	5180 ACCOUNT
LABOR	$1,475,194.00	$ 621,593.00
MATERIAL RECEIVED	533,245.00	221,335.00
SUBCONTRACTOR SERVICES	115,771.59	195,280.20
STORES ISSUED	42,085.50	42,085.50
TOTAL TO DATE	$2,166,296.09	$1,080,293.70
LESS: 5%	(108,314.80)	(54,014.69)
LESS: PRIOR BILLINGS	(1,195,305.76)	(527,800.81)
BILLING FOR CURRENT PERIOD	$ 862,675.53	$ 498,478.20

Stephen A. Madden
Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-4E2X, M-5, M-10-3
File

SAM/jlh
Attachment

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander,
Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

CUSTOMER CODE NUMBER: 32220

DATE January 30, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-C
TERMS Net

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 4

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

TOTAL AMOUNT DUE THIS INVOICE: $1,432,793.40

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130266

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 4

DATE: January 30, 1985

Hours Expended thru January 28, 1985	77,823.5	=	62.54 %
Total Hours in the Contract	÷ 124,445		
Total Labor Value in the Contract	$ 3,352,714		

Job to Date Billing Value

Labor	62.54 %	X $ 3,352,714	=	$ 2,096,787.00
Material Purchases Received				$ 754,580.00
Subcontractor Services Performed				$ 311,051.79
Stores Issued				$ 84,171.00
Total				$ 3,246,589.79

Billing Value as Computed Above	$ 3,246,589.79
Less: Prior Billings	$ 1,813,796.39
Billing for Current Period	$ 1,432,793.40

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 30, 1985
Serial No. 2665-75

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed are the invoice and backup information supporting our Progress Billing No. 4 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward both documents and the enclosed cover letter to Commander, Military Sealift Command in Washington, D. C. An addressed, postage paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 30, 1985
Serial No. 2665-76

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed is the invoice and backup information supporting our Progress Billing No. 4 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin.
File
Controller

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 4

DATE: January 30, 1985

Hours Expended thru January 28, 1985 77823.5 = 62.54 %

Total Hours in the Contract ÷ 124,445

Total Labor Value in the Contract $ 3,352,714

Job to Date Billing Value

Labor	62.54 % X $ 3,352,714 =	$ 2,096,787 -
Material Purchases Received		$ 754,580 -
Subcontractor Services Performed		$ 311,051.79
Stores Issued		$ 84,171 -
Total		$ 3,246,589.79

Billing Value as Computed Above	$ 3,246,589.79
Less: Prior Billings	$ 1,813,796.39
Billing for Current Period	$ 1,432,793.40

USNS OBSERVATION ISLAND (T-A

CONTRACT NO. N00033-70-C-0

JOB ORDER NO. N00033-85-J0-0

BACKUP FOR PROGRESS BILLING NO. _

DATE: January 30, 1985

SHIRLEY ASAP PLEASE! MKM

Hours Expended thru January 28, 1985 77823.5 = 62.54 %

Total Hours in the Contract ÷ 124,445

Total Labor Value in the Contract $ 3,352,714

Job to Date Billing Value

Labor	62.54 % X $ 3,352,714 =	$ 2,096,787 -
Material Purchases Received		$ 754,580 -
Subcontractor Services Performed		$ 311,051.79
Stores Issued		$ 84,171 -
Total		$ 3,246,589.79

Billing Value as Computed Above	$ 3,246,589.79
Less: Prior Billings	$ 1,813 796.39
Billing for Current Period	$ 1,432,793.40

OBSERVATION ISLAND

	INVOICED	IN SYSTEM	SUBCONTRACT BILLED TO MSC
MG #1	35550	35550	35550
#2	53,350	53350	53350
#3 (MISSING)	25,400		
#4	53,710.80		53 710.80
#5	39,903.40		39,903.40
#6	63,546.00		63,546.00
271,460.20			
EJ BARTELLS #1	12096.59	12096.59	12096.59
JIGGS FLOOR	49055	49055	49055.00 *
ODS	3840	3840	3840.00 *
			311,051.79 TOTAL SUBCONTRACT

I----- DAILY FOR: 01-28-85 -----I I---------- JOB - TO - DATE AMOUNTS ----------I

JOB	ITEM	CR FT	S. T. HOURS	O. T. HOURS	PROD HOURS	S. T. HOURS	O. T. HOURS	TOTAL HOURS	BUDG ESTIM	PCT USED	BILLABLE AMOUNT		DISTRIB-UTION
2665	1525	BOILER CONTROL REPAIRS											
		2	0.0	0.0	0.0	2.5	0.0	2.5			$ 65.00		
		14	0.0	0.0	0.0	7.0	0.0	7.0			$ 182.00		
	DIRECT TOTAL		0.0	0.0	0.0	9.5	0.0	9.5	0	0.0%	$ 247.00	REG	247.00
2665	1535	REPAIR OF NUISANCE CRACKS											
		11	0.0	0.0	0.0	4.0	0.0	4.0			$ 104.00		
	DIRECT TOTAL		0.0	0.0	0.0	4.0	0.0	4.0	0	0.0%	$ 104.00	REG	104.00
2665	DIRECT TOTAL		3791.0	38.0	3829.0	76767.0	1056.5	77823.5	141941	54.8%	$2042428.00	REG	2023411.00
												PRE	19017.00
OTHER DIRECT			27.0	0.5	27.5	31.0	0.5	31.5			$ 828.00	REG	819.00
												PRE	9.00

JOB 2665 TOTALS:

1,867,647.62	E	754,579.81	598,226.90	6,496.20	E	0.00 N

ITEM	P.O. DOLLARS	STAT	RECEIVING DOLLARS	STAT	INVOICED DOLLARS	STAT	R.T.V. DOLLARS	STAT	CREDITED DOLLARS	STAT
1433	1,347.39	E	847.39		570.35		0.00	E	0.00	
1434	18,688.55	E	15,421.55		0.00		0.00	E	0.00	
1436	1,214.00	C	0.00		0.00		0.00	E	0.00	
1436A	960.00	C	0.00		0.00		0.00	E	0.00	
1436	303.00	C	303.00	F	0.00		0.00	E	0.00	
1437	1,996.04	E	130.04		0.00		0.00	E	0.00	
1438	5,745.12	C	5,745.12	F	5,739.12	F	0.00	E	0.00	
1439	978.00	C	0.00		0.00		0.00	E	0.00	
1439A	240.00	C	0.00		0.00		0.00	E	0.00	
1439	195.86	E	195.86	F	0.00		0.00	E	0.00	
1439A	40.00	C	0.00		0.00		0.00	E	0.00	
1439	275.00	E	0.00		0.00		0.00	E	0.00	
1439A	400.00	E	0.00		0.00		0.00	E	0.00	
1439B	149.40	E	0.00		0.00		0.00	E	0.00	
1439A	400.00	E	0.00		0.00		0.00	E	0.00	
1441	7,200.00	C	0.00		0.00		0.00	E	0.00	
1442	11,016.27	E	7,746.27		161.73		0.00	E	0.00	
1501	887.50	E	807.50		467.50		0.00	E	0.00	
1502	0.00-	C	0.00	F	0.00		0.00	E	0.00	
1503	645.76-	C	0.00	F	0.00		0.00	E	0.00	
1507	645.76	C	0.00	F	0.00		0.00	E	0.00	
1509	326.78	E	72.60		128.34		0.00	E	0.00	
1511	0.00	C	0.00	F	0.00		0.00	E	0.00	
1512	13,960.00	C	0.00		0.00		0.00	E	0.00	
1515	180.00	C	0.00		0.00		0.00	E	0.00	
1517	600.00	E	0.00		0.00		0.00	E	0.00	
1520	450.00	E	0.00		0.00		0.00	E	0.00	
1525	450.00	E	0.00		0.00		0.00	E	0.00	

MORRIS GURALNICK ASSOCIATES, INC.
NAVAL ARCHITECTS MARINE ENGINEERS

(415) 543-8650

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

23 January 1985
J.O. No. 1380
Invoice No. 10936

APPROVED FOR PAYMENT	
INITIALS	DATE
JM	1/29

Northwest Marine Iron Works
P.O. Box 3109
Portland, OR 97208

Attention: Accounts Payable

Reference: P.O. No. 26663

INTERIM BILLING

For Professional Services rendered on the USNS OBSERVATION ISLAND - 1 January through 15 January 1985.

ITEM	DESCRIPTION OF WORK	EST. % COMPLETE	CONTRACT AMOUNT	AMOUNT BILLED
0103	Working Drawings & Liason	89%	$298,680.00*	$265,825.20
0109	System Technical Manual	-0-	7,200.00	-0-
0215	Name Plates, Notices & Markings	90%	2,500.00	2,250.00
0401	Selected Records	-0-	33,900.00	-0-
0403	Annotation	10%	1,600.00	160.00
0602	Weight Estimate	75%	4,300.00	3,225.00
0603	Stability Tests	-0-	6,800.00	-0-
0604	Trim & Stability Booklet	-0-	5,100.00	-0-
	TOTALS	N/A	$360,080.00	$271,460.20
	Less Amounts Previously Invoiced			207,914.20
	TOTAL AMOUNT THIS INVOICE			$ 63,546.00

For any questions/problems resulting from this invoice please contact either Angie Graham or Liz Phipps in Accounting at (415) 543-8650.

*Figure now includes additional $44,680.00 to cover authorized change orders re: our letter 12 December 1984, Serial No. 105.

MORRIS GURALNICK ASSOCIATES, INC.
NAVAL ARCHITECTS MARINE ENGINEERS

(415) 543-8650

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

2665

2 January 1985
J.O. No. 1380
Invoice No. 10920

APPROVED FOR PAYMENT

INITIALS	DATE
JCM	1/29

Northwest Marine Iron Works
P.O. Box 3109
Portland, OR 97208

Attention: Accounts Payable

Reference: P.O. No. 26663

INTERIM BILLING

For Professional Services rendered on the USNS OBSERVATION ISLAND - 16 December through 31 December 1984.

ITEM	DESCRIPTION OF WORK	EST. % COMPLETE	CONTRACT AMOUNT	AMOUNT BILLED
0103	Working Drawings & Liason	69%	$298,680.00*	$206,089.20
0109	System Technical Manual	-0-	7,200.00	-0-
0215	Name Plates, Notices & Markings	30%	2,500.00	-0-
0401	Selected Records	-0-	33,900.00	-0-
0403	Annotation	-0-	1,600.00	-0-
0602	Weight Estimate	2%	4,300.00	1,075.00
0603	Stability Tests	-0-	6,800.00	-0-
0604	Trim & Stability Booklet	-0-	5,100.00	-0-
	TOTALS	N/A	$315,400.00	$207,914.20
	Less Amounts Previously Invoiced			168,010.80
	TOTAL AMOUNT THIS INVOICE			$39,903.40

For any questions/problems resulting from this invoice please contact either Angie Graham or Liz Phipps in Accounting at (415) 543-8650.

*Figure now includes additional $44,680.00 to cover authorized change orders re: our letter 12 December 1984, Serial No. 105.

PAGE 1

(503) 249-5835

№ 523

January 08,1985

JIGGS' FLOORS INC.

Commercial & Industrial Floors

4835 N. Albina Ave.
Portland, Oregon 97217

SOLD TO: Northwest Marine Iron Works
P.O. Box 3109
Portland, Oregon 97208

SUBJECT: USNS Observation Island
P.O. No. 26665
Job No. 2665

PAY FROM THIS INVOICE – NO OTHER WILL BE SENT.

PARTIAL BILLING NO. 1 for material only

Item No.	Material Cost
306	$ 540.00
702	22,148.00
705	116.00
706	43.00
707	14.00
708	29.00
922	1,897.00
928	14.00
929	475.00
932	14.00
942	2,797.00
1016	2,719.00
1018	291.00
1021	2,026.00
1022-A	7,262.00

APPROVED FOR PAYMENT

INITIALS	DATE
	1/28

Due and Payable within 30 days.

Cont'd

NWMAR130278

249-5835

PAGE 2

№ 523

January 08,1985

GGS' FLOORS INC.

Commercial & Industrial Floors

4835 N. Albina Ave.
Portland, Oregon 97217

TO: Northwest Marine Iron Works
P.O. Box 3109
Portland, Oregon 97208

BJECT: USNS Observation Island
P.O. No. 26665

PAY FROM THIS INVOICE — NO OTHER WILL BE SENT.

tem No.	Material Cost
042	$ 1,242.00
052	1,384.00
062	44.00

49,055.00

Due and Payable within 30 days.

ODS
Oregon Design Service
Marine • Industrial • Consulting • 1-800-547-2560 / (503) 285-5391

2465

Date: 18 January 1985

Our Ref: 84936

INVOICE: 5418

APPROVED FOR PAYMENT

INITIALS	DATE
Jam	1/28

NORTHWEST MARINE IRON WORKS
P.O. BOX 3109
PORTLAND, OREGON 97208

ATTN: Accounts Payable

NORTHWEST MARINE IRON WORKS PURCHASE ORDER : 26670
Item 0402

NET DUE 20 DAYS

Technical assistance provided in performing provisioning technical documentation for the procurement items for the USNS OBSERVATION ISLAND (T AGM 23) as outlined in specification item 402.

Progress payment requested for four man-weeks of research effort in connection with items of support and non-support and contacting the suppliers for documentation during November-December 1984.

TOTAL DUE THIS INVOICE: $3840.00

O.D.S. Management, Inc. • 4553 N. Channel • P.O. Box 17353 • Portland, Oregon 97217

JOB#: 2665 JOB NAME:

ITEM	WH	DOC. #	DATE	QNTY.	U/M	DESCRIPTION		AMOUNT	VALUE
954-	15	20152-03	01/15/85	25.00	LB	ELECTRODE, WELDING, STEEL	3/32" #6011	20.50	0.00
954-	15	20155-04	01/15/85	1.00	EA	PAINT	YELLOW, PASTEL, SPRAY	1.48	0.00
954-	15	20161-12	01/17/85	2.00	EA	WHSE SUPPLIES, MISC.	CHIPBOARD, 1/16"	0.82	0.00
954-	15	20168-15	01/18/85	2.00	EA	TAPE	DUCT, 2" #PC-620	6.86	0.00
954-	15	20176-03	01/21/85	12.00	EA	PAINT	WHITE, GLOSS, SPRAY	18.00	0.00
954-	15	20176-04	01/21/85	6.00	EA	TAPE	1/8" X 1" CHROMATED FELT	64.74	0.00
954-	15	20176-10	01/21/85	1.00	EA	WHSE SUPPLIES, MISC.	SAIL TWINE, 8 OZ BALL	1.39	0.00
954-	15	20180-10	01/21/85	1.00	EA	WIRE	16 GA. MECHANICS, 5# ROLL	4.68	0.00
954-	15	20180-11	01/21/85	6.00	EA	TAPE	DUCT, 2" #PC-620	20.82	0.00
954-	15	20186-04	01/22/85	22.00	LB	GASKET, SHT, BLK RUBBER, C. I	1/8" X 48"	25.52	0.00
954-	15	20188-07	01/22/85	1.00	EA	WIRE	16 GA. MECHANICS, 5# ROLL	4.68	0.00
954-	15	20188-08	01/22/85	12.00	EA	ZINC	LANE 16 OZ AEROSOL ZINKY	82.56	0.00
954-	15	20190-02	01/22/85	3.00	PR	HASPS, HINGES &BOLTS	2 1/2"BUTT HINGE#SC810-ZN	3.51	0.00
954-	15	20190-09	01/22/85	25.00	LB	ELECTRODE, WELDING, STEEL	3/32" #6011	20.50	0.00
954-	15	20193-05	01/23/85	48.00	LB	GASKET, SHT, BLK RUBBER, C. I	1/8" X 48"	55.68	0.00
954-	15	20196-26	01/23/85	12.00	EA	COMPOUND, CAULKING	DOW SILICONE #732 WHITE	47.28	0.00
954-	15	20205-01	01/24/85	12.00	EA	COMPOUND, CAULKING	DOW SILICONE #732 WHITE	47.28	0.00
954-	15	20217-09	01/25/85	30.00	LFT	PLASTIC, SHEET	6 MIL X 10' X 100' CLEAR	10.20	0.00
954-	15	20229-09	01/29/85	3.00	EA	WHSE SUPPLIES, MISC.	BRUSH, VARNISH, 4"#54-04	6.57	0.00
954-	15	20222-05	10/28/85	25.00	LB	ELECTRODE, WELDING, STEEL	3/32" #6011	20.50	0.00
							ITEM 954- TOTAL:	2,834.51	0.00
955-	15	20180-12	01/21/85	8.00	EA	CLAMP, PIPE CS BLK	2" GRINNELL	7.44	0.00
955-	15	20180-13	01/21/85	2.00	EA	GASKET, PRE-CUT, #7021	1/8" X 2 1/2" X 7"	3.16	0.00
955-	15	20180-15	01/21/85	1.00	EA	FLUX	WELDMARK, SIL FOSS	2.35	0.00
955-	15	20180-16	01/21/85	4.00	OZ	ROD, BRAZING	3/32" SIL FOSS, 15% SILVER	10.32	0.00
955-	15	20181-12	01/21/85	6.00	EA	CLAMP, PIPE CS BLK	2-1/2" GRINNELL #212	5.94	0.00
955-	15	20196-16	01/23/85	12.00	OZ	ROD, BRAZING	1/8"X.050 SIL FOSS 15%, FL	22.80	0.00
955-	15	20197-06	01/23/85	12.00	EA	CLAMP, PIPE CS BLK	2-1/2" GRINNELL #212	11.88	0.00
							ITEM 955- TOTAL:	63.89	0.00
962-	01	10818-13	01/09/85	1.00	EA	TAPE	SCOTCH 33+, 3/4" X 66'	1.65	0.00
962-	11	10879-01	01/16/85	20.00	FT	STL, H/R, ANGLE, ABRATE&PAIN	2" X 2" X 1/4"	318.00	0.00
							ITEM 962- TOTAL:	319.65	0.00
							JOB 2665 TOTAL:	84,170.94	101.90

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 16, 1985
Serial No. 2665-55

3

CONREP, USNS OBSERVATION ISLAND (T-AGM 23)
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed for your approval are the invoice and backup documentation supporting our progress billing No. 3 under the subject contract.

After your approval, please return both documents to me. Thank you.

Very truly yours,

W. Rodgers Higgins
for Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

PAID
SYMBOL 7726
FEB 06 1985
(62387) MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

4675

Commander
Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE January 16, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-B
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

Page 19
Line 17

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 3

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

Net amount approved for payment $ 550,553.77 88

TOTAL AMOUNT DUE THIS INVOICE: ~~$641,243.59~~

AA 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ5189 $334,61Ø.87
N6238785RCØ5821
AB 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ518Ø $215,942.9Ø
N6238785RCØ5821

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and the order.

Stephen A. Madden
CONSULTANT

PURSUANT TO AUTHORITY VESTED IN ME, I CERTIFY THAT THIS VOUCHER IS CORRECT AND PROPER FOR PAYMENT.

CONTRACT ADMINISTRATOR 1/21/85

Remit

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130283

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander
Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE January 16, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-B
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 3

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

TOTAL AMOUNT DUE THIS INVOICE: $641,243.59

LESS CURRENT BILLING RETENTION < 90,689.82 >

TOTAL AMOUNT DUE THIS INVOICE 550,553.77

per 2/4/85 Tele w Yvonne has been paid

COLLECTED 2/7 (22 DAYS)

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130284

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 3

DATE: January 16, 1985

Hours Expended thru January 14, 1985	38,158	=	30.7 %
Total Hours in the Contract	÷ 124,445		
Total Labor Value in the Contract	$ 3,352,714		

Job to Date Billing Value

Labor	30.7 %	X $ 3,352,714	=	$ 1,029,283.00
Material Purchases Received				$ 582,187.00
Subcontractor Services Performed				$ 154,707.39
Stores Issued				$ 47,619.00
Total				$ 1,813,796.39
Less 5% ret				< 90,689.82 > ★
				1,723,106.57

Billing Value as Computed Above	1,723,106.57	~~$ 1,813,796.39~~
Less: Prior Billings	1,172,552.80	$ 1,172,552.80
Billing for Current Period	550,553.77	$ 641,243.59

90,689.82

NORTHWEST MARINE IRON WORKS

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 16, 1985
Serial No. 2665-56

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed are the invoice and backup information supporting our progress billing No. 3 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward both documents and the enclosed cover letter to Commander, Military Sealift Command in Washington, D. C. An addressed, postage paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

NORTHWEST MARINE IRON WORKS

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 16, 1985
Serial No. 2665-57

INVOICE

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed is the invoice and backup information supporting our progress billing No. 3 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 3

DATE: JANUARY 16, 1985

Hours Expended thru January 14, 1985 — 38158 = 30.7 %

Total Hours in the Contract — 124,445 ÷

Total Labor Value in the Contract — $ 3,352,714

Job to Date Billing Value

Labor	30.7 % X $ 3352,714 =	$ 1,029,283.00
Material Purchases Received		$ 582,187.00
Subcontractor Services Performed (MG) 88900 + 5371080 (EJ DMT) 12096.59		$ 154,707.39 ← CHECK
Stores Issued		$ 47,619.00
Total		$ 1,813,796.39

Billing Value as Computed Above	$ 1,813,796.39
Less: Prior Billings	$ 1,172,552.80
Billing for Current Period	$ 641,243.59

I----- DAILY FOR: 01-14-85 -----I I---------- JOB - TO - DATE AMOUNTS ----------I

JOB	ITEM	CR FT	S. T. HOURS	O. T. HOURS	PROD HOURS	S. T. HOURS	O. T. HOURS	TOTAL HOURS	BUDG ESTIM	PCT USED	BILLABLE AMOUNT		DISTRIB-UTION
2665	1515		REPLACEMENT OF NO. 2 HERMETICALLY SEALED COMPRESSOR/MOTOR										
		7	0.0	0.0	0.0	2.0	0.0	2.0			$ 52.00		
	DIRECT TOTAL		0.0	0.0	0.0	2.0	0.0	2.0	0	0.0%	$ 52.00	REG	52.00
2665	1516		BALLAST REMOVAL										
		7	3.0	0.0	3.0	3.0	0.0	3.0			$ 78.00		
		11	0.0	0.0	0.0	1.0	0.0	1.0			$ 26.00		
	DIRECT TOTAL		3.0	0.0	3.0	4.0	0.0	4.0	0	0.0%	$ 104.00	REG	104.00
2665	1517		LABOR & MATERIAL TO DISCONNECT & REMOVE WATER PUMP MOTORS										
		1	0.0	0.0	0.0	5.0	0.0	5.0			$ 130.00		
		14	0.0	0.0	0.0	2.5	0.0	2.5			$ 65.00		
		17	0.0	0.0	0.0	4.5	0.0	4.5			$ 117.00		
	DIRECT TOTAL		0.0	0.0	0.0	12.0	0.0	12.0	0	0.0%	$ 312.00	REG	312.00
2665	DIRECT TOTAL		3239.5	32.0	3271.5	37700.0	458.0	38158.0	124445	30.7%	$1000352.00	REG	992108.00
												PRE	8244.00
OTHER DIRECT			20.0	0.5	20.5	39.0	0.5	39.5			$ 1036.00	REG	1027.00
												PRE	9.00

ITEM	P.O. DOLLARS	STAT	RECEIVING DOLLARS	STAT	INVOICED DOLLARS	STAT	R.T.V. DOLLARS	STAT	CREDITED DOLLARS	STAT
1417	27,900.00	C	0.00		0.00		0.00	E	0.00	
1418	7,775.00	C	0.00		0.00		0.00	E	0.00	
1422	0.00	C	0.00		0.00		0.00	E	0.00	
1423	43,540.00	C	0.00		0.00		0.00	E	0.00	
1424	948.00	E	0.00		0.00		0.00	E	0.00	
1425	1,300.00	E	0.00		0.00		0.00	E	0.00	
1426	202.00	C	0.00		0.00		0.00	E	0.00	
14[illegible]	500.00	E	0.00		0.00		0.00	E	0.00	
1430	20,090.00	E	40.00		0.00		0.00	E	0.00	
1433	570.35	C	570.35	F	570.35	F	0.00	E	0.00	
1434	14,576.00	E	0.00		0.00		0.00	E	0.00	
1436	1,214.00	C	0.00		0.00		0.00	E	0.00	
1437	1,996.04	E	0.00		0.00		0.00	E	0.00	
1438	5,745.12	C	5,745.12	F	5,739.12	F	0.00	E	0.00	
1439	978.00	C	0.00		0.00		0.00	E	0.00	
1441	7,200.00	C	0.00		0.00		0.00	E	0.00	
1442	11,016.27	E	7,246.27		0.00		0.00	E	0.00	
1501	807.50	C	807.50		0.00		0.00	E	0.00	
15[illegible]	0.00-	C	0.00	F	0.00		0.00	E	0.00	
1503	645.76-	C	0.00	F	0.00		0.00	E	0.00	
1507	645.76	C	0.00	F	0.00		0.00	E	0.00	
1509	126.78	E	72.60		0.00		0.00	E	0.00	
1511	0.00	C	0.00		0.00		0.00	E	0.00	
1515	0.00	C	0.00		0.00		0.00	E	0.00	
1517	600.00	E	0.00		0.00		0.00	E	0.00	
JOB 2665 TOTALS:										
	1,701,292.94	E	582,187.01		401,986.90		6,496.20	E	0.00	N

JOB#: 2665 JOB NAME:

ITEM	WH	DOC. #	DATE	QNTY.	U/M	*---------- DESCRIPTION ----------*		AMOUNT	VALUE
954-	15	20086-11	01/07/85	1.00	EA	ELBOW,90*,SR,STD BW	3"	8.88	0.00
954-	15	20094-01	01/08/85	1.00-	EA	ELBOW,90*,SR,STD BW	3"	8.88-	0.00
954-	15	20098-02	01/09/85	50.00	LB	ELECTRODE,WELDING,STEEL	3/32" #6011	41.00	0.00
954-	15	20102-09	01/09/85	19.00	LB	GASKET,SHT,BLK RUBBER,C. I	1/8" X 48"	22.04	0.00
954-	15	20120-12	01/11/85	50.00	LB	ELECTRODE,WELDING,STEEL	1/8" #6011	34.00	0.00
954-	15	20123-11	01/11/85	2.00	OZ	ROD,BRAZING	3/32" SIL FOSS,15% SILVER	5.16	0.00
954-	15	20123-13	01/11/85	23.00	LB	GASKET,SHT,BLK RUBBER,C. I	1/8" X 48"	26.68	0.00
954-	15	20123-15	01/11/85	3.00	EA	TAPE	DUCT,2" #PC-620	10.29	0.00
954-	15	20127-07	01/11/85	40.00	LFT	ASBESTOS	1/16" X 40" NON-BESTOS	208.80	0.00
954-	15	20142-01	01/14/85	33.00	LB	GASKET,SHT,BLK RUBBER,C. I	1/16" X 48"	55.11	0.00
							ITEM 954- TOTAL:	1,053.89	0.00
96[illegible]	01	10818-13	01/09/85	1.00	EA	TAPE	SCOTCH 33+,3/4" X 66'	1.65	0.00
							ITEM 962- TOTAL:	1.65	0.00
							JOB 2665 TOTAL:	47,619.13	101.90

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

2

January 3, 1985
Serial No. 2665-34

CONREP, USNS OBSERVATION ISLAND (T-AGM 23)
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed for your approval are the invoice and backup documentation supporting our progress billing No. 2 under the subject contract.

After your approval, please return both documents to me.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

RECEIVED 1-4-85

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 050
07 January 85

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

Subject: PROGRESS BILLING NO. 2

The following breakdown should be used for payment of the attached invoice:

	5189 ACCOUNT	5180 ACCOUNT
LABOR	$477,540.00	$105,832.00
MATERIAL RECEIVED	365,029.00	58,053.00
SUBCONTRACTOR SERVICES	0.00	142,610.80
STORES ISSUED	18,125.89	5,362.11
TOTAL TO DATE	$860,694.89	$311,858.91
LESS: PRIOR BILLING	(679,005.00)	(208,146.00)
BILLING FOR CURRENT PERIOD	$181,689.89	$103,711.91

Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-2EX, M-5, M-10-3
File

SAM/jlh
Attachment

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

4148

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

P A L D
SYMBOL 7726
JAN 17 1985
MSC WASH. D.C.
ACCTS NFC WASH. D.C.
5101

DATE January 3, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-A
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 2

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

amount approved for payment

TOTAL AMOUNT DUE THIS INVOICE: $285,401.80

AA 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ5189 $181,689.89
N6238785RCØ5821

AB 17X4912.33Ø2 ØØØ 77777 Ø 62387 2E ØØØØØØ Ø3952ØØØ5189Ø 1Ø3,711.91
N6238785RCØ5821

Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A Malden
COMSC CONREP

PURSUANT TO AUTHORITY VESTED IN ME, I CERTIFY THAT THIS VOUCHER IS CORRECT AND PROPER FOR PAYMENT.

R W Beil Ø1/Ø9/85
CONTRACT ADMINISTRATOR

Corrected 1/18 (15 days)

Remitt

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130294

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D. C. 20390

Attn: Payment Certification Division

DATE January 3, 1985
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO. N00033-70-C-0075
INVOICE NO. 2665-A
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 2

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

TOTAL AMOUNT DUE THIS INVOICE: $285,401.80

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A. Madden
COMSC CONREP

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 2

DATE: January 3, 1985

Hours Expended thru January 2, 1985	21,605	=	17.4	%
Total Hours in the Contract	÷ 124,445			
Total Labor Value in the Contract	$ 3,352,714			

Job to Date Billing Value

Labor	17.4 % X $ 3,352,714	=	$ 583,372.00
Material Purchases Received			$ 423,082.00
Subcontractor Services Performed			$ 142,610.80
Stores Issued			$ 23,488.00
Total			$ 1,172,552.80

Billing Value as Computed Above	$ 1,172,552.80
Less: Prior Billings	$ (887,151)
Billing for Current Period	$ 285,401.80

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.

COMSO CONTER

NWMAR130296

MORRIS GURALNICK ASSOCIATES, INC.
NAVAL ARCHITECTS MARINE ENGINEERS

(415) 543-8650

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

14 December 1984
J.O. No. 1380
Invoice No. 10888

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.
Stephen A. Madden
USMSC CONREP

Northwest Marine Iron Works
P.O. Box 3109
Portland, OR 97208

Attention: Accounts Payable

Reference: P.O. No. 26663

INTERIM BILLING

For Professional Services rendered on the USNS OBSERVATION ISLAND - 1 December through 15 November 1984.

ITEM	DESCRIPTION OF WORK	EST. % COMPLETE	CONTRACT AMOUNT	AMOUNT BILLED
0103	Working Drawings & Liason	56%	$298,680.00*	$167,260.80
0109	System Technical Manual	-0-	7,200.00	-0-
0215	Name Plates, Notices & Markings	30%	2,500.00	750.00
0401	Selected Records	-0-	33,900.00	-0-
0403	Annotation	-0-	1,600.00	-0-
0602	Weight Estimate	-0-	4,300.00	-0-
0603	Stability Tests	-0-	6,800.00	-0-
0604	Trim & Stability Booklet	-0-	5,100.00	-0-
	TOTALS	N/A	$315,400.00	$168,010.80
	Less Amounts Previously Invoiced			114,300.00
	TOTAL AMOUNT THIS INVOICE			$53,710.80

For any questions/problems resulting from this invoice please contact either Bruce Dollinger or Liz Phipps in Accounting at (415) 543-8650.

*Figure now includes additional $44,680.00 to cover authorized change orders re: our letter 12 December 1984, Serial No. 105.

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 3, 1985
Serial No. 2665-36

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed are the invoice and backup information supporting our progress billing No. 2 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward both documents and the enclosed cover letter to Commander, Military Sealift Command, in Washington, D. C. An addressed, postage-paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 3, 1985
Serial No. 2665-35

Commander, Military Sealift Command (M-56)
Washington, D.C. 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed is the invoice and backup information supporting our progress billing No. 2 under the subject contract.

Please do not mail the check in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (1)
File
Controller

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 2

DATE: January 3, 1985

Hours Expended thru January 2 1985 21,605 = 17.4 %

Total Hours in the Contract ÷ 124,445

Total Labor Value in the Contract $ 3,352,714

Job to Date Billing Value

Labor	17.4 % X $ 3352,714 =	$ 583,372
Material Purchases Received		$ 423,082
Subcontractor Services Performed		$ 88,900 + 53710 = 142610.80
Stores Issued		$ 23,488
Total		~~$ 1,118,842~~ 1172 552.80

Billing Value as Computed Above	$ ~~1,118,842~~ 1172,552.80
Less: Prior Billings	$<887,151>
Billing for Current Period	$ ~~231,691~~ 285,401.80

JOB#: 2665 JOB NAME:

ITEM	WH	DOC. #	DATE	QNTY.	U/M	DESCRIPTION		AMOUNT	VALUE
707-	15	20057-12	12/17/84	1.00	EA	TAPE	DUCT, 2" #PC-620	3.38	0.00
							ITEM 707- TOTAL:	108.04	0.00
708-	15	20029-11	12/03/84	1.00	EA	LUBRICANTS	OIL, CUTTING, LANE, ALL PURP	5.28	0.00
							ITEM 708- TOTAL:	5.28	0.00
752-	15	20051-04	12/14/84	16.00	EA	WHSE SUPPLIES, MISC.	CHIPBOARD, 1/16"	6.56	0.00
							ITEM 752- TOTAL:	6.56	0.00
802-	15	20006-03	11/08/84	2.00	EA	TAPE	MASKING, 3/4" #CP-83	0.88	0.00
802-	15	20006-04	11/08/84	1.00	EA	TAPE	MASKING, 2" #CP-83	1.20	0.00
802-	15	20006-07	11/08/84	2.00	FT	CHAIN	#14 BRASS SINGLE JACK	0.88	0.00
802-	15	20069-09	12/28/84	50.00	LB	ELECTRODE, WELDING, STEEL	1/8" #7018, LINCOLN	27.00	0.00
802-	15	20069-15	12/28/84	75.00	EA	ELECTRODE, CARBON ARC	5/16"	17.25	0.00
							ITEM 802- TOTAL:	47.21	0.00
922-	02	10767-03	12/12/84	1.00	EA	SHEET METAL, ALUMINUM 5052	.063 X 48" X 120"	36.56	0.00
922-	11	10769-03	12/13/84	2.00	EA	GASES	ARGON, 100%, 330CU. FT. CYL.	37.00	0.00
							ITEM 922- TOTAL:	73.56	0.00
924-	02	10773-05	12/17/84	30.00	FT	STEEL, H/R, ANGLE, BLK	1 1/2" X 1 1/2" X 1/8"	7.80	0.00
							ITEM 924- TOTAL:	7.80	0.00
952-	09	10750-02	12/04/84	50.00	EA	SAND, ABRASIVE	#35 GRIT, 100# SACK	179.50	0.00
952-	11	10778-08	12/18/84	60.00	LB	WIRE, WELDING	1/16" E-71-T-1 60# SPOOL	64.20	0.00
952-	15	20051-05	12/14/84	16.00	EA	WHSE SUPPLIES, MISC.	CHIPBOARD, 1/16"	6.56	0.00
952-	15	20069-10	12/28/84	50.00	LB	ELECTRODE, WELDING, STEEL	1/8" #7018, LINCOLN	27.00	0.00
952-	15	20069-16	12/28/84	75.00	EA	ELECTRODE, CARBON ARC	5/16"	17.25	0.00
							ITEM 952- TOTAL:	294.51	0.00
							JOB 2665 TOTAL:	23,488.26	0.00

JOB 2665 TOTALS:

1,571,698.87	E	423,081.61	315,998.22	6,496.20	E	0.00 N

JOB	ITEM	CR FT	S. T. HOURS	O. T. HOURS	PROD HOURS	S. T. HOURS	O. T. HOURS	TOTAL HOURS	BUDG ESTIM	PCT USED	BILLABLE AMOUNT		DISTRIB-UTION
			I----- DAILY FOR: 01-02-85 -----I			I---------- JOB - TO - DATE AMOUNTS ----------I							
2665	1403		FUEL TANK MANHOLE GASKETS										
		11	0.0	0.0	0.0	2.0	0.0	2.0			$ 52.00		
	DIRECT TOTAL		0.0	0.0	0.0	2.0	0.0	2.0	288	0.7%	$ 52.00	REG	52.00
2665	1408		EXTERNAL ELECTRIC WIRING										
		1	0.0	0.0	0.0	1.0	0.0	1.0			$ 26.00		
	DIRECT TOTAL		0.0	0.0	0.0	1.0	0.0	1.0	163	0.6%	$ 26.00	REG	26.00
2665	1430		SHAFT TUNNEL WATER TIGHT DOOR										
		11	0.0	0.0	0.0	2.0	0.0	2.0			$ 52.00		
	DIRECT TOTAL		0.0	0.0	0.0	2.0	0.0	2.0	1000	0.2%	$ 52.00	REG	52.00
2665	1508		CONTRACTOR WITNESSING OF ANTENNA ASSEMBLY AND INSTALLATION										
		1	0.0	0.0	0.0	16.0	8.0	24.0			$ 768.00		
		14	0.0	0.0	0.0	20.0	5.5	25.5			$ 762.00		
	DIRECT TOTAL		0.0	0.0	0.0	36.0	13.5	49.5	0	0.0%	$ 1530.00	REG	1287.00
												PRE	243.00
2665	1509		SECURITY DOOR FOR ADP OFFICE										
		3	0.0	0.0	0.0	3.0	0.0	3.0			$ 78.00		
	DIRECT TOTAL		0.0	0.0	0.0	3.0	0.0	3.0	0	0.0%	$ 78.00	REG	78.00
2665	DIRECT TOTAL		708.5	0.5	709.0	21547.5	57.5	21605.0	124445	17.4%	$ 562765.00	REG	561730.00
												PRE	1035.00
OTHER DIRECT			0.0	0.0	0.0	14.0	0.0	14.0			$ 364.00	REG	364.00

MORRIS GURALNICK ASSOCIATES, INC.
NAVAL ARCHITECTS MARINE ENGINEERS

(415) 543-8650

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

2645

14 December 1984
J.O. No. 1380
Invoice No. 10888

APPROVED FOR PAYMENT	
INITIALS	DATE
JM	1/29

Northwest Marine Iron Works
P.O. Box 3109
Portland, OR 97208

Attention: Accounts Payable

Reference: P.O. No. 26663

INTERIM BILLING

For Professional Services rendered on the USNS OBSERVATION ISLAND - 1 December through 15 November 1984.

ITEM	DESCRIPTION OF WORK	EST. % COMPLETE	CONTRACT AMOUNT	AMOUNT BILLED
0103	Working Drawings & Liason	56% 41%	$298,680.00*	$167,260.80
0109	System Technical Manual	-0-	7,200.00	-0-
0215	Name Plates, Notices & Markings	30%	2,500.00	750.00
0401	Selected Records	-0-	33,900.00	-0-
0403	Annotation	-0-	1,600.00	-0-
0602	Weight Estimate	-0-	4,300.00	-0-
0603	Stability Tests	-0-	6,800.00	-0-
0604	Trim & Stability Booklet	-0-	5,100.00	-0-
	TOTALS	N/A	$315,400.00	$168,010.80
	Less Amounts Previously Invoiced			114,300.00
	TOTAL AMOUNT THIS INVOICE			$53,710.80

For any questions/problems resulting from this invoice please contact either Bruce Dollinger or Liz Phipps in Accounting at (415) 543-8650.

*Figure now includes additional $44,680.00 to cover authorized change orders re: our letter 12 December 1984, Serial No. 105.

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

1

December 18, 1984
Serial No. 2665-21

CONREP, USNS OBSERVATION ISLAND (T-AGM 23)
Swan Island Ship Repair Yard
5555 N. Channel Avenue
Portland, OR 97217

Attention: Mr. Steve Madden

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed for your approval are the invoice and backup documentation supporting our progress billing No. 1 under the subject contract.

After your approval, please return both documents to me.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (2)
File
Controller

MILITARY SEALIFT COMMAND

CONSTRUCTION REPRESENTATIVE OFFICE
USNS OBSERVATION ISLAND (T-AGM 23)

USNS OBSERVATION ISLAND T-AGM 23
CRO/SER 034
20 December 84

MEMORANDUM

From: COMSC CONREP
USNS OBSERVATION ISLAND

To: M-56

The following breakdown should be used for payment of the attached invoice:

	5189 ACCOUNT	5180 ACCOUNT
LABOR	$355,388	$ 60,349
MATERIAL RECEIVED	309,090	58,053
SUBCONTRACTOR SERVICES	0	88,900
STORES ISSUED	14,527	844
	$679,005	$208,146

Stephen A. Madden
COMSC CONREP

cc: COMSC Washington D.C., Attn: M-2EX, M-5, M-10-3
File

SAM/jlh
Attachment

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MARINE DIVISION

NORTHWEST MARINE IRON WORKS

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander, Military Sealift Command (M-56)
Washington, D.C. 20390

Attn: Payment Certification Division

DATE December 18, 1984
OUR JOB NO. 2665
CUSTOMER'S ORDER NO. N00033-85-J0-001
CONTRACT NO N00033-70-C-0075
INVOICE NO. 2665
TERMS Net

CUSTOMER CODE NUMBER: 32220

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)

PROGRESS BILLING NO. 1

PROGRESS BILLING FOR WORK PERFORMED TO DATE.

TOTAL AMOUNT DUE THIS INVOICE: $887,151.00

Accting Date: # 5189 : $679,005
5180 : 208,146

COLLECTED
1/8
(20 DAYS)

I Certify that the percentage of completed progress is correct and that work performed is in accordance with the provisions of the contract and job order.

Stephen A Madden
COMSC CONREP

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR130307

USNS OBSERVATION ISLAND (T-AGM 23)

CONTRACT NO. N00033-70-C-0075

JOB ORDER NO. N00033-85-J0-001

BACKUP FOR PROGRESS BILLING NO. 1

DATE: December 18, 1984

Hours Expended thru December 16, 1984	15,388.5	=	12.4 %
Total Hours in the Contract	÷ 124,445		
Total Labor Value in the Contract	$3,352,714		

Job to Date Billing Value

Labor	12.4 %	X $3,352,714	=	$ 415,737
Material Purchases Received				$ 367,143
Subcontractor Services Performed				$ 88,900
Stores Issued				$ 15,371
Total				$ 887,151

Billing Value as Computed Above	$ 887,151
Less: Prior Billings	$ --
Billing for Current Period	$ 887,151

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

December 18, 1984
Serial No. 2665-22

Commander, Military Sealift Command (M-56)
Washington, DC 20390

Attention: Payment Certification Division

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed is the invoice and backup information supporting our progress billing No. 1 under the subject contract.

Please do not mail the ckeck in payment of this invoice. We have made arrangements with a First National Bank of Maryland courier to pick up all checks payable to us.

Very truly yours,

Mark K. McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (2)
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

December 18, 1984
Serial No. 2665-23

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

Attention: Finance Department

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001
Progress Billing

Gentlemen:

Enclosed the the invoice and backup information supporting our progress billing No. 1 under the subject contract. The invoice has been approved by Mr. Steve Madden, CONREP.

Please forward both documents and the enclosed cover letter to Commander, Military Sealift Command in Washington, D.C. An addressed, postage paid Express Mail envelope has been enclosed for this mailing.

Very truly yours,

Mark K McGirr

Mark K. McGirr
Controller

MKM/sw
Encl.

cc: Admin. (2)
File
Controller

MARINE DIVISION
NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208
LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

December 13, 1984
Serial No. 2665-18

Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, Washington 98115

Attention: Mr. Robert Morrison, Code 405

Subject: USNS OBSERVATION ISLAND (T-AGM 23)
Contract No. N00033-70-C-0075
Job Order No. N00033-85-J0-001

Dear Mr. Morrison:

Please let this letter serve to confirm Northwest Marine's intent to reduce its forward billing rate for emergent work on our contract with you for the USNS OBSERVATION ISLAND (T-AGM 23). Our new rate, subject to further discussion, of course, will be $32.40 per man-hour on a straight time basis exclusive of any profits and fees.

I would like to point out that while this cost represents a reduction from our earlier audited forward billing rate, it is not as low as the anticipated billing rates that we have forecasted to the contracting authority in various recent proposals on cost-type contracts. Inasmuch as we have radically reduced our expenses, we are able to see more reduction in the forward billing cost. This reduction, however, has not yet allowed us to obtain any major Navy overhaul work whose man-day consumption would give us a more prolonged and stable man-day base to bring our forward billing cost down below $32.00 per hour where it should reside.

If you have any questions on the above, please feel free to call.

Yours very truly,

William H. Zavin II
President

WHZ/sw

2665 #1

MORRIS GURALNICK ASSOCIATES, INC.
NAVAL ARCHITECTS MARINE ENGINEERS

(415) 543-8650

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

9 November 1984
J.O. No. 1380
Invoice No. 10850

Northwest Marine Iron Works
P.O. Box 3109
Portland, Oregon 97208

Attention: Accounts Payable

Reference: P.O. No. 26663

APPROVED FOR PAYMENT	
INITIALS	DATE
DCJ	12/14/84

INTERIM BILLING

For Professional Services rendered on the USNS OBSERVATION ISLAND - Inception through October 1984

Description of Work	Est. % Complete	Contract Amount	Amount Billed
Working Drawings	15%	$237,000.00	$35,550.00
Liaison	-0-	17,000.00	-0-
System Technical Manual	-0-	7,200.00	-0-
Name Plates, Notices & Markings	-0-	2,500.00	-0-
Weight Estimate	-0-	4,300.00	-0-
Stability Tests	-0-	6,800.00	-0-
Trim & Stability Booklets	-0-	5,100.00	-0-
Selected Records	-0-	33,900.00	-0-
Annotation	-0-	1,600.00	-0-
TOTALS	N/A	$315,400.00	$35,550.00
Less Amounts Previously Invoiced			-0-
TOTAL AMOUNT OF THIS INVOICE			$35,550.00

For any questions/problems resulting from this invoice please contact either Bruce Dollinger or Liz Phipps in Accounting at (415) 543-8650

MORRIS GURALNICK ASSOCIATES, INC.
NAVAL ARCHITECTS MARINE ENGINEERS

(415) 543-8650

620 FOLSOM STREET
SAN FRANCISCO, CALIFORNIA 94107

2685 #2

16 November 1984
J.O. No. 1380
Invoice No. 10863

Northwest Marine Iron Works
P.O. Box 3109
Portland, OR 97208

Attention: Accounts Payable

Reference: P.O. No. 26663

APPROVED FOR PAYMENT
INITIALS | DATE
12/18/84

INTERIM BILLING

For Professional Services rendered on the USNS OBSERVATION ISLAND - 1 November through 15 November 1984.

ITEM	DESCRIPTION OF WORK	EST. % COMPLETE	CONTRACT AMOUNT	AMOUNT BILLED
0103	Working Drawings & Liaison	35%	$254,000.00	$88,900.00
0109	System Technical Manual	-0-	7,200.00	-0-
0215	Name Plates, Notices & Markings	-0-	2,500.00	-0-
0401	Selected Records	-0-	33,900.00	-0-
0403	Annotation	-0-	1,600.00	-0-
0602	Weight Estimate	-0-	4,300.00	-0-
0603	Stability Tests	-0-	6,800.00	-0-
0604	Trim & Stability Booklet	-0-	5,100.00	-0-
	TOTALS	N/A	$315,400.00	$88,900.00
	Less Amounts Previously Invoiced			35,550.00
	TOTAL AMOUNT THIS INVOICE			$53,350.00

For any questions/problems resulting from this invoice please contact either Bruce Dollinger or Liz Phipps in Accounting at (415) 543-8650.

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT

1. CONTRACT ID CODE

PAGE 1 OF PAGES 2

2. AMENDMENT/MODIFICATION NO.: P00001

3. EFFECTIVE DATE:

4. REQUISITION/PURCHASE REQ. NO.: N00024-87-PR-25037

5. PROJECT NO. (If applicable):

6. ISSUED BY CODE N00024

Department of the Navy
Naval Sea Systems Command
NAVSEA Code 0285/Janet Smith
Washington, DC 20362-5101

7. ADMINISTERED BY (If other than Item 6) CODE N62799

Supervisor of Shipbuilding, Conversion and Repair, USN
Seattle, WA 98115

8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)

Northwest Marine Iron Works
5555 N. Channel Avenue
Portland, OR 97217

CODE FACILITY CODE

9A. AMENDMENT OF SOLICITATION NO.

9B. DATED (SEE ITEM 11)

10A. MODIFICATION OF CONTRACT/ORDER NO. (X) N00024-85-H-8197, EH29

10B. DATED (SEE ITEM 13) 87 APR 01

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☐ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended, ☐ is not extended.

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning _____ copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.

(✓) A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.

B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).

C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:

(X)

D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not, ☒ is required to sign this document and return 2 copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The subject contract is modified as follows:

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)

16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)

15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)

15C. DATE SIGNED

16B. UNITED STATES OF AMERICA BY (Signature of Contracting Officer)

16C. DATE SIGNED

REPRODUCED AT GOVERNMENT EXPENSE

N00024-85-H-8197

Job Order EH 29

P00001

a. The performance period for the Regular Overhaul (ROH) of USS PAUL F. FOSTER (DD-964) is revised to 1 Jul 87 - 1 Jun 88 vice 15 Jun 87 - 13 May 88. Consequently, the revised milestones proposed by Northwest Marine Iron Works, in their letter dated are accepted. Clause H-7, MILESTONES, is revised. Replacement pages 11 and 19 of 49 are enclosed.

b. The change in the availability period, described above, is considered to be fair and reasonable and has been mutually agreed upon by both parties. The contractor agrees that in consideration for this shift in the availability period for the regular overhaul (ROH) of USS PAUL F. FOSTER to waive any rights for claims for delay and disruptions resulting from award of this contract on 1 April 1987 rather than the anticipated award date shown in the solicitation.

SECTION F

DELIVERIES OR PERFORMANCE

F-1 EFFECTIVE DATE OF CONTRACT

The effective date of this contract is the date of award by the Government.

F-2 PLACE OF PERFORMANCE

Work on all vessels under this contract shall be performed at the:

Northwest Marine Iron Works
(Name of Facility)

5555 N. Channel Avenue
(Street Address)

Portland, Oregon 97217
(City, State, Zip Code)

F-3 DELIVERY/REDELIVERY SCHEDULE FOR THE VESSEL

The Government agrees to deliver the vessel to the Contractor at the Contractor's plant on or about the following "Commencement Date." The Contractor agrees to redeliver the vessel no later than the following "Completion Date."

ITEM	VESSEL	PRODUCTION PERIOD COMMENCEMENT DATE	PRODUCTION PERIOD COMPLETION DATE
0001	USS PAUL F. FOSTER (DD-964)	1 JUL 87	1 JUN 88

F-4 PERIOD OF PERFORMANCE

ITEM		PERIOD OF PERFORMANCE
0001	Prepare for and accomplish the regular overhaul (ROH) of USS PAUL F. FOSTER (DD-964)	From the effective date of the contract through 1 JUN 88

H-7 MILESTONES (1982 MAR)

(a) The Contractor shall submit with his offer dates for the successful accomplishment of the following major milestones:

MILESTONE EVENT	DATE
Crew Move Ashore	
Docking	
Undocking	
Crew Move Aboard	
Systems Check-out	
Light-Off Examination	
Dock Trials	
Sea Trials	

b. The Contractor shall successfully accomplish the major milestones prior to the dates listed above.

c. If any milestone event is not accomplished by the date listed, and the failure to accomplish any milestone event does not arise from a cause beyond the control and without the fault or negligence of the Contractor or a subcontractor, such failure may be deemed to constitute a failure to perform this contract in accordance with its terms within the meaning of the clause of this contract entitled "Default."

H-8 STANDARDIZATION

Subject to meeting the requirements of the specifications, the Contractor shall utilize equipments and components identical to those of the DD-963 Class Ships. Where equipments or components are not available, the Contractor shall select hull, mechanical, and electrical components in the following order:

a. Equipment which meets the requirements of the specifications and is identical to equipments and components of the DD-963 Class Ships (standard equipment).

b. Equipment which meets the requirements of the specifications and which appears in NAVSEA Standard Components List for Hull, Mechanical and Electrical Equipment, NAVSEA S-0300-A-PLL-00-0 (standard equipment).

NWMAR130317

CONTRACT

SOLICITATION, OFFER AND AWARD

1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350) ▶ RATING: DO-A3 | PAGE OF 1 | 49 PAGES

2. CONTRACT NO.	3. SOLICITATION NO.	4. TYPE OF SOLICITATION	5. DATE ISSUED	6. REQUISITION/PURCHASE NO.
N00024-85-H-8197 Job Order EH29	N00024-87-R-8508	☐ SEALED BID (IFB) ☒ NEGOTIATED (RFP)	86 Nov 24	N00024-87-PR-25037

7. ISSUED BY CODE N00024
Department of the Navy
Naval Sea Systems Command
Code 0285/Janet Smith
Washington, DC 20362-5101

8. ADDRESS OFFER TO (If other than Item 7)
Department of the Navy, Naval Sea Systems Command
NAVSEA Code 0215
National Center No. 3, Room 5E40
Washington, DC 20362-5101

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and See Sec. L copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in See Item No. 8 until 2:00PM (Hour) local time 87 Jan 13 (Date)

CAUTION — LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL: ▶ A. NAME: Ms. Janet M. Smith | B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS): (202) 692-7714

11. TABLE OF CONTENTS

(✓)	SEC.	DESCRIPTION	PAGE(S)	(✓)	SEC.	DESCRIPTION	PAGE(S)
		PART I — THE SCHEDULE				PART II — CONTRACT CLAUSES	
X	A	SOLICITATION/CONTRACT FORM	1	X	I	CONTRACT CLAUSES	35
X	B	SUPPLIES OR SERVICES AND PRICES/COSTS	2			PART III — LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.	
X	C	DESCRIPTION/SPECS./WORK STATEMENT	6	X	J	LIST OF ATTACHMENTS	44
X	D	PACKAGING AND MARKING	9			PART IV — REPRESENTATIONS AND INSTRUCTIONS	
	E	INSPECTION AND ACCEPTANCE	10	X	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	
X	F	DELIVERIES OR PERFORMANCE	11				
X	G	CONTRACT ADMINISTRATION DATA	13	X	L	INSTRS., CONDS., AND NOTICES TO OFFERORS	
X	H	SPECIAL CONTRACT REQUIREMENTS	14	X	M	EVALUATION FACTORS FOR AWARD	

OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within 120 calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8) ▶	10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
	%	%	%	%

14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO	DATE	AMENDMENT NO.	DATE
	See attachment immediately following Forms 33.			

15A. NAME AND ADDRESS OF OFFEROR: CODE ____ FACILITY ____
Northwest Marine Iron Works
5555 N. Channel Avenue
Portland, Oregon 97217

16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
William H. Zavin II
President

15B. TELEPHONE NO. (Include area code): (503) 285-7557

15C. ☐ CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE

17. SIGNATURE: William H. Zavin

18. OFFER DATE: 6 March 1987

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED: 0001 - 0003

20. AMOUNT: $26,423,466

21. ACCOUNTING AND APPROPRIATION: See Item J-5

22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION:
☐ 10 U.S.C. 2304(c)( ) ☐ 41 U.S.C. 253(c)( )

23. SUBMIT INVOICES TO ADDRESS SHOWN IN ▶ ITEM 24 (4 copies unless otherwise specified)

24. ADMINISTERED BY (If other than Item 7) CODE N62799
Supervisor of Shipbuilding,
Conversion and Repair, USN
Seattle, WA 98115

25. PAYMENT WILL BE MADE BY CODE N00406
Commanding Officer
Naval Supply Center, Puget Sound Naval
Shipyard, Bremerton, WA 98314

NAME OF CONTRACTING OFFICER (Type or print): R. L. KETTS, CDR, SC, USN

27. UNITED STATES OF AMERICA (Signature of Contracting Officer)

28. AWARD DATE: 87 APR 01

IMPORTANT — Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

NSN 7540-01-152-8064
PREVIOUS EDITION NOT USABLE

STANDARD FORM 33 (REV. 4-85)
Prescribed by GSA
48 CFR 53.214(c)

NWMAR130318

CONTRACT PRICE PROPOSAL

SOLICITATION NO. N00024-87-R-8508

USS PAUL F. FOSTER (DD-964)

ATTACHMENT TO FORMS 33

BLOCK NO. 14 ACKNOWLEDGEMENT OF AMENDMENTS

AMENDMENT NO.	DATE
1	November 24, 1986
2	December 04, 1986
3	December 11, 1986
4	January 05, 1986
5	December 23, 1986
6	January 19, 1987
7	January 28, 1987
8	February 20, 1987
9	March 02, 1987

REPRODUCED AT GOVERNMENT EXPENSE

SECTION B

SUPPLIES OR SERVICES AND PRICES

ITEM	SUPPLIES/SERVICES		AMOUNT
0001	Prepare for and accomplish the regular overhaul (ROH) of USS PAUL F. FOSTER (DD-964)	Price	$26,423,466
		Performance Fee (Maximum 5% of Price)	$ 1,321,173
	0001AA Messing and Berthing		
		Price	$ 222,012
		Performance Fee (Maximum 5% of Price)	$ 11,101
	0001AB Repairs, D&F Alts		
		Price	$10,033,299
		Performance Fee (Maximum 5% of Price)	$ 501,665
	0001AC "K" Alts		
		Price	$16,107,759
		Performance Fee (Maximum 5% of Price)	$ 805,388
	0001AD Ord Alts		
		Price	$ 18,690
		Performance Fee (Maximum 5% of Price)	$ 934
	0001AE Ship Selected Records (SSR) Update		
		Price	$ 41,706
		Performance Fee (Maximum 5% of Price)	$ 2,085

NWMAR130320

SECTION B

SUPPLIES OR SERVICES AND PRICES

ITEM	SUPPLIES/SERVICES
0002	Data for Item 0001. See Contract Data Requirements List (CDRL) DD Form 1423, Exhibit A. Cost for applicable data is to be included in the price for each SUBCLIN.
0003	Provisioning Technical Documentation (PTD) for Item 0001. See Contract Data Requirements List (CDRL), DD Form 1423, Exhibit B. Cost for applicable data is to be included in the price for each SUBCLIN.

NWMAR130321

SECTION B

SUPPLIES OR SERVICES AND PRICES

The Contractor shall indicate below the manhour reservation rate to be used in evaluation of the contractor's proposal and also to be used for negotiating changes as required by the clause entitled "Additional Government Requirements." This rate shall be the rate for pricing changes negotiated under the "Additional Government Requirements" clause up to the maximum manhours specified therein.

ADDITIONAL GOVERNMENT REQUIREMENTS MANHOURS RESERVATION RATE $20.00

Because an offeror's accounting system may include production support and other costs as either direct or indirect related charges, depending on the particular offeror, each offeror is required to show the composition of its proposed manhour reservation rate for the 100,232 manhour reservation for production hours of growth work, in accordance with its accounting system, as indicated in the attached titled, "Supplemental Data for Manhour Reservation Rates" Breakdown No. 4, Attachment 2 to Section L. This attachment is incorporated by reference into this contract. The rate proposed, and costs included in its composition, shall be in accordance with the offeror's disclosure statement or accepted accounting system, as appropriate.

By definition, there are 8 hours in a manday. Therefore, 12,529 mandays equates to 100,232 manhours.

The Contractor's proposed hourly rate shall be a weighted average to cover the entire effort, all direct and indirect charges, burdened to include, but not limited to the following: overhead, general and administrative, quality control, supervision, support functions, facilities capital cost of money and profit, for both the prime contractor and subcontractors selected by the prime contractor. The proposed hourly rate will not be used to price work which may be directed to a subcontractor by name in the work specifications. Material costs shall not be included in the rate. The contractor is required to include in its proposed hourly rate any overtime premium, and delay and disruption dollar costs to accomplish these additional requirements as the contractor's business judgement dictates. Pay for personnel traveling to and from the job site shall be included in the contractor's proposed rate, if required.

REPRODUCED AT GOVERNMENT EXPENSE

NWMAR130322

USS PAUL F. FOSTER (DD 964)
Section C - Description/Specifications

GENERAL

The requirement of this solicitation is to accomplish the overhaul, repair, and alteration (herein referred to as Regular Overhaul "ROH") of USS PAUL F. FOSTER (DD 964) as specified herein and in accordance with the work item specifications, drawings, test procedures, and other detailed data provided by the Government in accordance with Section J. During the course of the contract, the Contractor may be required to develop work item specifications for emergent work to be accomplished. In addition, work item specifications for emergent work may be provided by the Supervisor. Whether developed by the Contractor and submitted to the Supervisor or provided by the Supervisor, such additional specifications and associated data shall be written in a format similar to that of the work item specifications in Section J and will form the basis of a contract modification negotiated between the Contractor and the Supervisor.

SCOPE OF WORK

ITEM 0001

The Contractor shall accomplish the ROH of USS PAUL F. FOSTER (DD 964) as specified herein and in accordance with work item specifications, drawings, test procedures and other detailed data provided by the Government in accordance with Section J.

The Contractor shall perform planning, document preparation, engineering, procurement, prefabrication and shipyard production work, and/or repairs, maintenance and routine work as specified herein. These requirements include, but are not limited to, the following:

a. Provide the management, technical, procurement, production, test, trials, quality assurance and facility resources necessary to accomplish the ROH of USS PAUL F. FOSTER (DD 964) in accordance with the requirement stated in this section, the overhaul specification (SECTION J), the delivery schedule specified in SECTION F, and all other terms and conditions set forth in this contract.

b. Accomplish advance planning and scheduling to ensure a rational, integrated and timely plan for procurement of Contractor Furnished Material, receipt, storage and installation of Contractor/Government Furnished Material, as identified in (SECTION J), and for accomplishment of production work, tests and trials in order to meet the required contract delivery dates. A milestone schedule and critical path analysis shall be used to measure schedule performance of the functions and elements required to successfully complete the overhaul of USS PAUL F. FOSTER (DD 964) within the availability dates specified in SECTION F.

NWMAR130323

c. Develop Progress Measurement Systems to permit the determination of the physical progress of work for each of the elements in the scheduling plan, including material, manpower, engineering, production, tests and trials. The progressing system shall permit a direct comparison of the physical progress of work to the planned performance measurement baseline at the specification work item level. This system shall also be used to develop the Alteration Completion Report.

d. Apply stringent configuration control procedures to (1) ensure timely identification and incorporation of emergent work, and (2) ensure that configuration baselines are maintained for procured material, production work and software. Detailed data provided by the Government shall be used for the performance of the authorized alterations, repairs and maintenance. If production work cannot be accomplished in accordance with the detailed data, request for Deviations and Waivers procedures of DOD-STD-480A dated 12 April 1978 and Notice 1 dated 29 December 1978, as applicable, shall be followed.

e. Apply approved quality assurance procedures as required by this contract and the associated specifications. Ensure that procured material and performed engineering and production work will achieve and maintain the required quality standards.

f. The Contractor is required to hold or provide services of a firm holding a valid Naval Sea System Command Master Ordnance Repair (MOR) qualification for the duration of the availability. The MOR qualified prime/subcontractor shall have responsibility for management of combat systems work and combat systems testing.

g. Establish and maintain a system to provide logistic element status IAW Section 8 of SL720-AA-MAN-010, Fleet Modernization Program Management and Operation Manual, for CFE/CFM used to accomplish SHIPALTs during the availability.

ITEM 0001AA

Provide berthing and messing requirements and barge towing.

ITEM 0001AB

Accomplish routine repairs and installation of Title "D" and "F" SHIPALTs for DD 964 .

ITEM 0001AC

Accomplish installation of Title "K" SHIPALTs during the overhaul of DD 964.

ITEM 0001AD

Accomplish ORDALT requirements.

REPRODUCED AT GOVERNMENT EXPENSE

ITEM 0001AE

Accomplish update of Ship Selected Records (SSRs) data for DD 964.

ITEM 0002 (Data for Item 0001)

The data to be furnished hereunder shall be prepared and delivered in accordance with the Contract Data Requirements List (CDRL), DD Form 1423, Exhibit "A" attached hereto. The CDRL, attached as Exhibit "A", forms a part of the schedule of this solicitation.

ITEM 0003 (Data for Item 0001)

The Provisioning Technical Documentation shall be in accordance with MIL-STD-1552A and MIL-STD-1561A dated 17 March 1981, the NAVSEA Standard Provisioning Requirements Statement (PRS) dated August 1981 and the Contract Data Requirements List, DD Form 1423, Exhibit "B" attached hereto. The CDRL attached as Exhibit "B" forms a part of the schedule of this solicitation.

REPRODUCED AT GOVERNMENT EXPENSE

NWMAR130325

SECTION D - PACKAGING AND MARKING

D-1 CLASSIFIED DATA

Classified reports, data, and documentation, if applicable, shall be prepared for shipment in accordance with the Department of Defense Industrial Security Manual for Safeguarding Classified Information, DOD 5220.22-M.

D-2 UNCLASSIFIED DATA

Unclassified reports, data, and documentation shall be prepared for delivery in accordance with the Contractor standard commercial pratice.

D-3 PROVISIONED ITEM ORDER

The supplies ordered hereunder shall be preserved, packaged, and packed in accordance with instructions to be given by the Administrative Contracting Officer. When not otherwise specified, spare and repair parts shall be packaged and packed in accordance with "Level A Packaging and Packing" of Military Specification MIL-E-17555G, dated 1968 July 3, and Amendment No. 2, dated 1970 April 15.

NWMAR130326

SECTION E - INSPECTION AND ACCEPTANCE

(a) The inspection system which the Contractor is required to maintain as provided in paragraph (c) of Clause 52.217-7104 in Section I of the Master Agreement, entitled "Inspection and Manner of Doing Work," shall be in accordance with Standard Item 009-04 dated 8 Nov 1985.

(b) The inspection system shall be acceptable to the cognizant SUPSHIP prior to the start of work, and it shall be in effect at the start of and throughout each phase of the work to be performed.

(c) The Contractor shall provide and maintain a quality assurance program acceptable to the Government, and shall perform or have performed the inspections and tests pursuant to that program to substantiate that the material and workmanship provided pursuant to the job order conform to the drawings, specifications, job order, and contract requirements listed herein. the Contractor's quality assurance program shall be in accordance with that set forth in Standard Item 009-04, Inspection System Requirements (MIL-I-45208) dated 8 Nov 1985. In addition to its rights under Clause 52.217-7104 of the Master Agreement for Repair and Alteration of Vessels, the Government shall have the right to deem work or material furnished by the Contractor to be incomplete and not in accordance with the requirements of the job order by reason of the Contractor's failure to comply with the requirements of its quality assurance program and, as such, the Contractor shall not be entitled to progress payments for said work or material.

NWMAR130327

SECTION F

DELIVERIES OR PERFORMANCE

F-1 EFFECTIVE DATE OF CONTRACT

The effective date of this contract is the date of award by the Government.

F-2 PLACE OF PERFORMANCE

Work on all vessels under this contract shall be performed at the:

Northwest Marine Iron Works
(Name of Facility)

5555 N. Channel Avenue
(Street Address)

Portland, Oregon 97217
(City, State, Zip Code)

F-3 DELIVERY/REDELIVERY SCHEDULE FOR THE VESSEL

The Government agrees to deliver the vessel to the Contractor at the Contractor's plant on or about the following "Commencement Date." The Contractor agrees to redeliver the vessel no later than the following "Completion Date."

ITEM	VESSEL	PRODUCTION PERIOD COMMENCEMENT DATE	PRODUCTION PERIOD COMPLETION DATE
0001	USS PAUL F. FOSTER (DD-964)	15 Jun 87	13 May 88

F-4 PERIOD OF PERFORMANCE

ITEM		PERIOD OF PERFORMANCE
0001	Prepare for and accomplish the regular overhaul (ROH) of USS PAUL F. FOSTER (DD-964)	From the effective date of the contract through 13 May 88.

REPRODUCED AT GOVERNMENT EXPENSE

0002	Data for Item 0001.	From the effective date of the contract through completion and delivery of all data items specified on DD Form 1423, Section J, Exhibit "A."
0003	Provisioning Technical Documentation (PTD) for Item 0001.	From the effective date of the contract through completion and delivery of all PTD specified on DD Form 1423, Section J, Exhibit "B."

F-5 STOP WORK ORDER

FAR 52.212-13, "Stop Work Order" (Apr 1984) is incorporated by reference into this contract.

NWMAR130329

SECTION G

CONTRACT ADMINISTRATION DATA

G-1 CONTRACT ADMINISTRATION DATA

a. Work under this contract shall be under the cognizance of the Supervisor of Shipbuilding, Conversion and Repair, USN, designated at the time of contract award.

b. The Contract Administration Officer is the designated Supervisor of Shipbuilding, Conversion and Repair, USN.

G-2 CONTRACT ADMINISTRATION/PURCHASING OFFICE REPRESENTATIVE

a. Contract Administration Office Representative

NAME: Code 400/R. J. Matsushima, CDR, SC, USN
TELEPHONE: (206) 526-3406
ADDRESS: Supervisor of Shipbuilding, Conversion and Repair, USN
Seattle, WA 98115-5003

b. Purchasing Office Representative

NAME: Janet Smith
TELEPHONE: (202) 692-7714
ADDRESS: Naval Sea Systems Command
ATTN: SEA 0285
Washington, DC 20362-5101

G-3 PAYMENT ADDRESS

Offerors shall indicate below the address to which payment should be mailed.

Northwest Marine Iron Works
5555 N. Channel Avenue
Portland, Oregon 97217

G-4 ACCOUNTING/APPROPRIATION DATA

For accounting and appropriation data, see Section J of this contract.

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SECTION H

SPECIAL CONTRACT REQUIREMENTS

H-1 Complete and Final Equitable Adjustments

H-2 Qualification of Contractor Non-Destructive Testing (NDT) Personnel

H-3 Tests and Trials

H-4 Documentation of Requests for Equitable Adjustment

H-5 Tug and Pilot Services

H-6 Substitution of Personnel

H-7 Milestones

H-8 Standardization

H-9 Provisioning Technical Documentation

H-10 Technical Manuals and Drawings

H-11 Liquidated Damages

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H-14 Dry Dock Certification

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H-18 DOD FAR Supplement

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H-21 Additional Requirements

H-22 Growth and New Work

H-23 Order of Precedence

H-24 Indemnification for Access to Vessels

REPRODUCED AT GOVERNMENT EXPENSE

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H-1 COMPLETE AND FINAL EQUITABLE ADJUSTMENTS (NAVSEA 1975)

Whenever the contractor submits any claim for an equitable adjustment to any fact or circumstance regarded as a change order, whether formal or "constructive," under the "changes" or any other clause of the contract, such claim shall include all adjustments (including but not limited to adjustments arising out of delays or disruptions or both caused by such change order) to which the Contractor is entitled under the provisions of this contract. The foregoing requirement shall not preclude the Contractor from revising or resubmitting the aforesaid claim prior to agreement upon the equitable adjustment for the change order. However, upon the execution of the supplemental agreement setting forth the equitable adjustment for such change order, then, except as the parties may otherwise expressly agree in the aforesaid supplemental agreement, the Contractor shall waive any right under the "Changes" clause or any other clause of this contract to further equitable adjustments attributable to such facts or circumstances giving rise to the aforesaid claim, and, in any event, such right shall be deemed to have been so waived.

H-2 QUALIFICATION OF CONTRACTOR NON-DESTRUCTIVE TESTING (NDT) PERSONNEL

The Contractor and any NDT subcontractor (as hereinafter defined) shall utilize for the performance of required non-destructive testing (which includes, but is not limited to, radiographic, magnetic particle, liquid penetrant, and ultrasonic inspections) only personnel who have been previously qualified and certified in accordance with MIL-STD-271E. The term "NDT subcontractor" is defined to be a first tier subcontractor performing NDT in conjunction with the production of materials, components, or equipments for the vessel.

H-3 TEST AND TRIALS

During the conduct of required tests and trials, the vessel shall be under the control of the vessel's Commander and Crew with representatives of the Contractor and Government on board to determine whether or not the work done by the Contractor has been satisfactorily performed. The Contractor shall provide and install all fittings and appliances which may be necessary for dock and sea trials, to enable the representatives of the Government to determine whether the requirements of the contract have been met, and the Contractor shall install and remove instruments and apparatus furnished by the Government for such trials, as required by the specification.

H-4 DOCUMENTATION OF REQUESTS FOR EQUITABLE ADJUSTMENT

(a) For the purposes of this clause, the term "change" includes not only a change that is made pursuant to a written order that is designated as a "change order", but also (i) an engineering change proposed by the Government or by the Contractor and (ii) any act or omission to act on the part of the Government in respect of which a request is made for equitable adjustment.

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(b) Whenever the Contractor requests or proposes an equitable adjustment of $100,000 or more per vessel in respect to a change made pursuant to a written order designated as a "change order" or in respect of a proposed engineering change, and whenever the Contractor requests an equitable adjustment in any amount in respect of any other act or omission to act on the part of the Government, the proposal supporting such a request shall contain the following information for each individual item or element of the request:

(1) A description (i) of the work required by the contract before the change, which has been deleted by the change, and (ii) of the work deleted by the change which already has been completed. The description is to include a list of components, equipments, and other identifiable property involved. Also, the status of manufacture, procurement, or installation of such property is to be indicated. Separate descriptions are to be furnished for design and production work. Items of raw material, purchased parts, components, and other identifiable hardware, which are made excess by the change and which are not to be retained by the Contractor, are to be listed for later disposition;

(2) Description of work necessary to undo work already completed which has been deleted by the change;

(3) Description of work not required by the terms hereof before the change, which is substituted or added by the change. A list of components and equipment (not bulk materials or items) involved, should be included. Separate descriptions are to be furnished for design work and production work;

(4) Description of intereferences and inefficiencies in performing the change;

(5) Description of each element of disruption and exactly how work has been, or will be, disrupted;

(A) The calendar period of time during which disruption occurred, or will occur;

(B) Area(s) aboard the ship where disruption occurred, or will occur;

(C) Trade(s) disrupted, with a breakdown of manhours for each trade;

(D) Scheduling of trades before, during, and after period of disruption;

(E) Description of measures taken to lessen the disruptive effect of the change.

(6) Delay in delivery attributable solely to the change;

(7) Other work attributable to the change.

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(8) Supplementing the foregoing, a narrative statement of the direct causal relationship between any alleged Government act or omission and the claimed consequences thereof, cross-referenced to the detailed information provided as required above.

(9) A statement setting forth a comparative enumeration of the amounts "budgeted" for the cost elements, including the material costs, labor hours and pertinent indirect costs, estimated by the Contractor in preparing his initial and ultimate proposal(s) for this contract, and the amounts claimed to have been incurred and/or projected to be incurred corresponding to each such "budgeted cost" element.

(c) Each proposal in excess of $100,000 submitted in support of a claim for equitable adjustment under any provision of this contract shall, in addition to the information required by paragraph (b) hereof, contain a duly executed SF-1411 with respect to each individual claim item.

(d) It is recognized that individual claims for equitable adjustment may not comprehend all of the factors listed in paragraph (b) above. Accordingly, the Contractor is required to set forth in his proposal information only with respect to those factors which are comprehended in the individual claim for equitable adjustment. In any event, the information furnished hereunder shall be in sufficient detail to permit the Contracting Officer to allocate the claimed increased costs, or delay in delivery, or both, as appropriate, as set forth in the SF-1411, submitted pursuant to paragraph (c) of this clause, with the information submitted pursuant to paragraph (b) hereof.

(e) Each proposal submitted pursuant to this clause shall contain the following certification executed by the Contractor's general manager or other responsible senior official authorized to commit the company.

"The undersigned, being aware of the provisions of 18 U.S.C. Section 1001, hereby represents and certifies that to the best of his knowledge and belief:

(1) The contents of the foregoing proposal and its attachments have been thoroughly investigated by responsible company employees and officials for completeness and accuracy as to the facts, and that any judgmental statements and conclusions in the proposal and its attachments are clearly identified as such.

(2) The proposal either directly or by specific reference sets forth the information to be furnished pursuant to the "Documentation of Requests for Equitable Adjustment" clause of the contract to the full extent that such information is within custody of or available to the Contractor.

(3) On the basis of the foregoing review, he is satisfied with respect to each item that the adjustment claimed is therefore reasonable and accurately represents the additional costs and/or time incurred or to be incurred by reason of the asserted Government act or omission."

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H-5 TUG AND PILOT SERVICES

The Contractor shall be required to provide necessary tugs and pilot services to move the ship to the pier or dock, and upon completion of all work from the pier or dock, to the fairway of the plant.

H-6 DELETED

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H-7 MILESTONES (1982 MAR)

(a) The Contractor shall submit with his offer dates for the successful accomplishment of the following major milestones:

MILESTONE EVENT	DATE
Crew Move Ashore	5 July 1987
Docking	11 July 1987
Undocking	24 October 1987
Crew Move Aboard	19 February 1988
Systems Check-out	7 March 1988
Light-Off Examination	24 March 1988
Dock Trials	27 April 1988
Sea Trials	6 May 1988

b. The Contractor shall successfully accomplish the major milestones prior to the dates listed above.

c. If any milestone event is not accomplished by the date listed, and the failure to accomplish any milestone event does not arise from a cause beyond the control and without the fault or negligence of the Contractor or a subcontractor, such failure may be deemed to constitute a failure to perform this contract in accordance with its terms within the meaning of the clause of this contract entitled "Default."

H-8 STANDARDIZATION

Subject to meeting the requirements of the specifications, the Contractor shall utilize equipments and components identical to those of the DD-963 Class Ships. Where equipments or components are not available, the Contractor shall select hull, mechanical, and electrical components in the following order:

a. Equipment which meets the requirements of the specifications and is identical to equipments and components of the DD-963 Class Ships (standard equipment).

b. Equipment which meets the requirements of the specifications and which appears in NAVSEA Standard Components List for Hull, Mechanical and Electrical Equipment, NAVSEA S-0300-A-PLL-00-0 (standard equipment).

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c. Equipment which meets the requirements of the specifications (non-standard equipment). For this category, Provisioning Technical Documentation shall be submitted in accordance with Clause H-9 below.

H-9 PROVISIONING TECHNICAL DOCUMENTATION

For Contractor furnished equipments that meet standardization requirements of paragraph (a) or (b) of Clause H-8, above, only a Statement of Prior Submission (in accordance with paragraph 5.3.11, MIL-STD-1561A) is required. For non-standard equipment, paragraph (c) of Clause H-8, above, Provisioning Technical Documentation (PTD), shall be developed in accordance with MIL-STDs 1552A and 1561A, and the Provisioning Requirements Statement.

H-10 TECHNICAL MANUALS AND DRAWINGS

A. Technical Manuals: For Non-Standard Equipment, paragraph H-8(c), above, new/revised technical manuals shall be prepared in accordance with Technical Manual Contract Requirements (TMCR's), Serial Numbers NDMS-840001-000, 840002-000, 840003-000, and 840005-000, and in accordance with NAVSEA Standard Items 009-39, 009-41, and 009-42.

Technical manual changes for HM&E equipment are excluded, and will be accomplished by the planning yard.

B. Drawings: For Non-Standard Equipment, paragraph H-8(c), above, new/revised Level 3 Drawings per MIL-SPEC-DOD-D-1000B shall be developed for new/modified contractor furnished equipment. In addition, the Contractor shall update applicable Level 3 Contractor Ship Construction Drawings.

H-11 LIQUIDATED DAMAGES

For each day of delay of delivery of USS PAUL F. FOSTER (DD-964), $17,473 will be assessed as liquidated damages, provided however, that the aggregate of liquidated damages shall not exceed 10% of the job order price.

H-12 SCRAP (DISPOSAL OF)

All Government scrap resulting from accomplishment of any job order under this RFP is the property of the contractor to be disposed as he sees fit; it being understood that scrap means property that has no reasonable prospect of being sold except for the recovery value of its basic material content. The determination as to which materials are scrap and which materials are salvage will be made or concurred in by the duly appointed Property Administrator for the cognizant SUPSHIP Office.

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This procedure is not intended to conflict in any way with clauses in Section I entitled "Performance" or "Government Property (Fixed Price)" under the Master Contract in effect at the time of job order award, nor does it relieve the contractor of any other requirements under these clauses.

As consideration for retaining the Government scrap, the contractor's price for the performance of the work required by this solicitation shall be a net price reflecting the value of the Government scrap.

H-13 APPROPRIATION DATA

It is the Government's requirement that invoices submitted by the Contractor reflect the specific accounting classifications cited in this contract. The contractor shall submit vouchers for payment to the Paying Office (See SF 33) by ACRN level as identified on the Financial Accounting Data Sheet (NAVMAT Form 7300/10 (7/75)) attached to this contract. To the extent reasonably feasible, costs associated with the performance of this contract shall be segregated, accumulated and invoiced to the appropriate ACRN categories listed on the Financial Accounting Data Sheet. In the instances in which this is not feasible with respect to invoices submitted for progress payments, an allocation ratio shall be established by the ACO and the Contractor so that invoices submitted for progress payments will allocate costs to the ACRN level on a proportionate basis. Vouchers submitted to the paying office that do not identify billing amounts by the ACRN level or in accordance with the allocation ratio established by the ACO and the Contractor will be returned to the contractor for proper identification.

H-14 DRY DOCK CERTIFICATION

The drydocking of all vessels on or after 1 January 1980 shall be accomplished in dry docks certified in accordance with MIL-STD-1625 as invoked by NAVSEA Standard Item 009-01.

H-15 DISCLOSURE OF THE SUCCESSFUL TECHNICAL/MANAGEMENT AND PRICING PROPOSALS

(a) Notwithstanding any restrictive disclosure markings contained on an offeror's Technical/Management Proposal submitted in response to this solicitation, the offeror hereby agrees that if awarded a contract based on this solicitation, the offeror's Technical/Management Proposal may be incorporated into the contract by reference and may be provided to the cognizant Contract Administration Supervisor of Shipbuilding, Conversion and Repair.

(b) Notwithstanding any restrictive disclosure markings contained on an offeror's Pricing Proposal submitted in response to this solicitation, the offeror hereby agrees that if awarded a contract based on this solicitation, the offeror's Pricing Proposal may be incorporated into the contract by reference and may be provided to the cognizant Contract Administration Supervisor of Shipbuilding, Conversion and Repair.

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(c) Notwithstanding paragraphs (a) and (b) above, the public release of data received in response to this solicitation shall be governed by the Freedom of Information Act, 5 U.S.C. 552, as amended, and DOD FAR SUPP 24.202.

H-16 COMMAND INSPECTIONS OF BERTHING FACILITIES

(a) Once the ship's force takes occupancy of a berthing facility, it is recognized that the premises will be under the control of the Department of the Navy and subject to inspection by the Commanding Officer or his duly authorized representative(s). In recognition of (1) the Navy's need to ensure security, military fitness, and good order and discipline, and (2) the Navy's policy to conduct regularly scheduled, periodic inspections, the Contractor hereby agrees that while its berthing facilities are occupied by ship's force, the Commanding Officer or his duly authorized representative(s) has (have) the right to conduct command inspections of the berthing facilities occupied by ship's force.

(b) In instances where the contractor is using commercial facilities to satisfy the berthing requirement, the contractor hereby agrees to insert the following clause in any subcontract for berthing facilities to be provided under this contract:

> In recognition of (1) the Navy's need to ensure security, military fitness, and good order and discipline, and (2) the Navy's policy to conduct regularly scheduled, periodic inspections, _____ (insert name of subcontractor) hereby agrees that while its facilities are occupied by ship's force, the Commanding Officer or his duly authorized representative(s) has (have) the right to conduct command inspections of the facilities occupied by ship's force.

H-17 FACILITY SECURITY CLEARANCE

Award will be made to an offeror who has been granted, prior to date of award, a _____*_____ facility security clearance by a Military Department. The Naval Sea Systems Command will initiate appropriate security clearance action for any offeror who has not been granted such clearance and may otherwise be entitled to award. However, the Naval Sea Systems Command does not represent that such action can be completed and security granted before the expiration of offers.

*The security classification of this procurement is indicated on the Contract Classification Specification, DD Form 254, attached hereto.

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H-18 DOD FAR SUPPLEMENT (NAVSEA, APR 84)

All references to the Federal Acquisition Regulation (FAR) in this contract shall be deemed also to include the DOD FAR Supplement (DOD FAR SUPP), unless otherwise clearly indicated.

H-19 TRIALS

a. Dock Trials

The purpose of this trial is to conduct preliminary tests necessary to ensure that the ship is ready for operating at sea. Ship's personnel will conduct all tests and perform all operational functions; however, Contractor personnel will observe tests, record data, and make minor repairs and adjustments as necessary. The dock trial shall be scheduled in accordance with Work Item 982-31-001. Contractor personnel are not to interfere with functions of ship's personnel.

b. Fast Cruise

The "fast cruise" is a simulated underway period. The purpose of fast cruise is to test to the maximum extent possible, the ship's material and operational readiness condition. This includes normal watch stations and engineering casualty control procedures. Contractor personnel will not be allowed onboard during this period unless specifically requested by the SUPERVISOR. Fast cruise shall be scheduled after dock trials and prior to sea trials as cited in Specification Item 982-31-001.

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H-20 DETERMINATION OF PERFORMANCE FEE

The Contractor may earn a performance fee, as determined by the Fee Determining Official. The Government's purpose in granting a performance fee is to encourage and reward superior contractor effort directed toward performance of this contract. The specifics for evaluation are set forth in paragraphs that folalow. The amount of the performance fee pool is set forth in Section B.

(a) Performance Fee Board

The Contractor's performance evaluation for each period will be conducted by a Performance Fee Board (PFB) consisting of no more than five members, as below:

(1) The Chairperson (SUPSHIP Code 100 or ACO)
(2) TYCOM Representative
(3) NAVSEA Representative, SEA 914 Designee
(4) a) SUPSHIP Code _____
b) SUPSHIP Code _____

(b) Fee Determining Official

The Fee Determining Official (FDO), SEA 914, the Director, Gas Turbine Surface Combatant Ship Logistic Division, shall make determinations of the performance fee due to the Contractor based upon the performance evaluation conducted by the Performance Fee Board established pursuant to paragraph (a) above.

(c) Performance Fee Determination and Reclama Procedures

(1) Within twenty (20) days after the end of each evaluation period under the contract, the Contractor shall furnish to the PFB such information as may be reasonably required, to assist the PFB in evaluating the Contractor's performance during that evaluation period.

(2) Within three (3) working days after the Performance Fee meeting, the PFB shall prepare the performance evaluation letter and present it to the Fee Determining Official. A copy will be provided to the Contractor upon approval of the FDO.

(3) Within five (5) working days from receipt of the copy of the performance evaluation, the Contractor may submit to the FDO any comments with respect thereto. In support of his comments, the Contractor may furnish a written description of his performance during the period under consideration. This description shall clearly identify specific evaluation categories, factors and elements, and the Contractor's own rating thereof.

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(4) Within ten (10) working days from receipt of the performance evaluation letter, the FDO shall provide the Contracting Officer a final performance evaluation and determination of the performance fee.

(5) Within three (3) working days from receipt of the final determination, the SUPSHIP Contracting Officer shall notify the contractor in writing of the final determination.

(6) Within three (3) working days from the receipt of this written notification, the Contracting Officer shall issue a unilateral modification to the contract to provide for the performance fee.

(d) Finality of Fee Determination Official's Determination and determination of the performance fee.

Determinations of the Fee Determining Official with respect to the amount of the performance fee to be paid to the Contractor are final and shall not be subject to the "DISPUTES" clauses of this contract.

(e) Notification of Changes

If, during the fee determination procedure, the contractor receives comments or directions which the contractor believes constitute a change to the contract or specifications causing an increase in contract cost, the contractor shall notify the Contracting Officer of the change pursuant to the Clause I-45, "Notification of Changes", FAR 52.243-7.

(f) Evaluation Categories and Factors

The Contractor's performance during each evaluation period will be judged in three categories as listed below: (1) Schedule Performance; (2) Technical Performance; and (3) Management Performance. For the first evaluation period, the category weighting factors will be 20%, 40% and 40%, respectively. The Government may, at its discretion, unilaterally make category changes in the evaluation categories and factors as well as adjustments to the weighting of categories, if any, prior to commencement of each evaluation period. These changes will be made by unilateral modification issued by the ACO, and notice will be provided to the Contractor prior to commencement of the evaluation period. Unsatisfactory performance under a performance fee criterion may result in an increased weighting for that factor during future evaluation periods. The performance fee evaluation should stress a subjective review of the Contractor's performance in the "non-cost" aspects of successful performance, as set forth below.

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(1) Schedule Performance

(i) Effectiveness in establishing and maintaining a timely and efficient scheduling system will be evaluated. Particular emphasis will be placed on establishment and timely updating of a scheduling system that properly integrates Contractor furnished material, Government furnished material, planning and production labor, including subcontractor effort, into effective planning and accomplishment of the ROH.

(ii) Effectiveness in measuring schedule progress, using preplanning milestones and critical paths, will be evaluated. Communications with the Supervisor, regarding appraisal of performance related to critical paths, will be considered.

(iii) Effectiveness in meeting preplanned milestones will be evaluated. Particular consideration will be given to the Contractor's ability to maintain adequate progress in anticipation of completion of milestones.

(iv) Effectiveness in the recovery from and in the correction of causes leading to missed events, will be evaluated.

(v) Effectiveness of manpower utilization, to meet planning and production schedules, will be evaluated. This may include such items as methods and procedures to minimize time lost on the job and between jobs, and to perform work with a reasonable number of qualified personnel.

(vi) Effectiveness in integrating Ship's Force work items into Contractor schedules will be evaluated. Particular emphasis will be placed on the coordination with Ship's Force of milestones with joint responsibility.

(2) Technical Performance

(i) The responsiveness of the Engineering and Planning Organization in issuing drawings, sketches, work item specifications, technical instructions and similar documents required by the Supervisor, and by the waterfront organization in performing repairs and alterations, will be evaluated. Use of simple solutions and economic work methods for job accomplishment will be considered. The number of jobs held up for lack of engineering information, and rapidity with which waterfront engineering problems are resolved, will be considered.

(ii) Effectiveness of the Quality Assurance Organization, in fulfilling the in-process as well as the at-completion quality requirements of the contract, will be evaluated. Effectiveness of the Quality Assurance Organization, in identifying and correcting quality deficiencies and their causes in a timely manner, will be considered. The Contractor's management approach to fulfilling the quality requirements of the contract and as-found testing requirements, will also be considered.

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(iii) Effectiveness of repairs and alterations, as indicated by completeness of the work, minimum number of post-repair deficiencies and satisfactory completion of post-repair tests with little or no rework and retest in the period during which sea trials occur, will be evaluated. Quality of work will also be indicated by the number of and extent of sea trial deficiencies to be corrected. Particular attention will be given to control of metal joining processes (aluminum welding, silver brazing, and high strength steel welding) and cleanliness control which are required by the contract.

(iv) Effectiveness of the Contractor's care and preservation of installed, removed, and new equipment and material will be considered.

(v) Effectiveness of the Contractor's effort to keep compartments, passageways, docks, etc., clear of trash, debris extraneous material, and the like, in compliance with Navy and OSHA regulations, will be evaluated.

(vi) The effectiveness of Contractor compliance with applicable NAVY requirements including: MIL-STD's, specifications, drawings, test procedures, CDRL's and other detailed data provided by the Government. The effectiveness of contractor utilization of Government Furnished Information (GFI) will be evaluated. Timeliness of waiver requests, changes, indentification of documentation errors or problems will be considered.

(3) Management Performance

(i) Strong consideration will be given to timely negotiation and definitization of change orders, including prompt and timely submission of proposals and willingness to provide information required by the Government for negotiations.

(ii) The effectiveness of the Management Organization in problem anticipation and/or problem avoidance, as well as implementation of timely corrective action in problem areas which could affect achievement of milestones or successful, completion of the ROH by the delivery date, will be evaluated. Consideration will be given to the prevention of schedule slippage through use of regular management reviews of job techniques, material selection, subcontractor utilization and manpower.

(iii) The ability of the Contractor to select and effectively manage his subcontractors (material/sevice vendors and on-site subcontractors) will be evaluated. The schedule impact of jobs held up for vendor provided material, technical data and/or delays caused by on-site subcontractors will be considered.

(iv) The responsiveness of the purchasing organization, in obtaining and providing the parts, material and equipment necessary to maintain waterfront schedules, will be evaluated. Effectiveness in obtaining materials, and performing repairs and alterations in conformance with approved drawings/technical data, will be evaluated.

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(g) Evaluation Periods

The Performance Fee Board will evaluate the Contractor's performance on the ROH during each evaluation period. The evaluation periods shall be:

		Performance Fee Pool Available
First Period:	Award - 30 Jun 87	5%
Second Period	1 Jul 86 - 30 Sep 87	10%
Third Period:	1 Oct 87 - 31 Dec 87	10%
Fourth Period:	1 Jan 88 - 31 Mar 88	25%
Fifth Period:	1 Apr 88 - End of Warranty Period	50%

Performance fee will be made available by the ACO after award of contract in accordance with paragraph (c) above. There will be no rollover of fee permitted between periods.

The performance fee directed periods may be changed by unilateral contract modification.

(h) Performance Ratings

In evaluating contractor performance, the numerical ratings on the following page will be used.

The relationship of the percent of performance fee pool to be paid (subject to the determination of the Fee Determining Official) to the performance rating will be as follows:

Performance Rating	Percent of Performance Fee Pool
0 - 30	0
31 - 100	$\frac{(\text{Rating} - 30) \times 100}{70}$

(i) Payment of Performance Fee

The contractor shall be paid performance fee, if any, upon submittal of a proper invoice or voucher to the cognizant Payment Office, together with a copy of the unilateral modification to the contract authorizing payment of performance fee for the applicable Evaluation Period. The Contractor's invoice shall show the amount of fee payable for each sub-line item, which shall be directly proportionate to the amount of fee earned by the Contractor during the Evaluation Period and to the price proposed for each sub-line item. The Contractor's invoice must cite the appropriate accounting data in order for payment to be effected.

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ADJECTIVE RATING	NUMERICAL RATING	CRITERIA
EXCELLENT	91-100	The Contractor's performance greatly exceeds the merely satisfactory level of performance. The evaluator cannot cite relevant areas for improvement.
GOOD	66-90	The Contractor's performance exceeds the merely satisfactory level of performance. The evaluator may cite one or more areas for improvement but they are relatively minor in terms of potential program impact and they are substantially offset by better performance in other areas.
SATISFACTORY	41-65	The Contractor's performance is adequate. Although the evaluator may cite several areas for improvement, these are offset by better performance in other areas being evaluated and no major deficiencies are cited.
MARGINAL	31-40	The content and quality of Contractor performance are close to meeting satisfactory performance although there are many areas for improvement. No major deficiencies are cited.
UNSATISFACTORY	30 & Below	The content and quality of Contractor performance in at least one area are deemed by the evaluator to need substantial improvement. Contractor performance in the area being evaluated is considered to be such that a potentially adverse program impact is foreseen. The need for improvement is such that Government action may be required.

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H-21 ADDITIONAL GOVERNMENT REQUIREMENTS

a. "Additional Government Requirements" apply to growth work only and do not include new work. The contractor is expected to be able to perform work items 100-00-000, 200-00-000, 300-00-000, 400-00-000, 500-00-000, 600-00-000, 700-00-000, 800-00-000, and 900-00-000 so as to permit up to 100,232 manhours of work to be performed as "Additional Government Requirements" (growth), during the contract period of performance, without causing delay or disruption to the work performance under this contract, any other Government contract, or any other work in process for the Government. The production manhours ordered under the "Additional Government Requirements" clause are in addition to any hours reserved by individual specifications. The delivery dates of any ship under Government contract shall not be extended by reason of or as a result of "Additional Government Requirements" for up to and including 100,232 production manhours. The estimated production manhours associated with each of the aforementioned "Additional Government Requirements" work items are provided as estimates to facilitate contractor estimating; however, the government reserves the right to order up to 100,232 production manhours, in aggregate, irrespective of the final allocation of production manhours among the various work items.

b. Production manhours identified in Breakdown No. 4 and negotiated pursuant to this "Additional Government Requirements" clause are for production functions only. For this purpose, production manhours are hours of skilled labor at the journeyman level expended in direct production as exemplified by the following functions:

Abrasive cleaning/water blasting
Welding
Burning
Carpentry
Electronic Work
Lagging
Boilermaking
Sheetmetal Work
Rigging
Tank cleaning
Machining (inside & outside)
Brazing
Electrical Work
Shipfitting
Painting
Pipefitting
Engineering (production)
Staging/scaffolding

Production manhours will not include those functions (whether charged directly or indirectly by the offeror's accounting system) which are herein defined as support for production functions. Necessary support functions should be priced into the offeror's burdened rate for production manhours using the formula in Breakdown No. 4. Examples of support functions include:

Testing
Engineering (support)
Material handling
General labor
Surveying
Transportation
Lofting (sail/pattern making)
Supervision
Quality assurance
Planning
Fire watch
Cleaning
Security

c. "Additional Government Requirements" may be ordered by the Contracting Officer pursuant to the "Changes" clause or as mutually agreed by the parties under a supplemental agreement up to and including 100,232 manhours of work.

d. "Additional Government Requirements" does not include work performed pursuant to the clauses of this contract entitled "Inspection and Manner of Doing Work" and "Guarantees".

e. "Additional Government Requirements" will be priced using the manhour reservation rate specified in Section B and on the "Supplemental Data for Manhour Reservation Rate," Breakdown No. 4.

f. If the total production manhour reservation hours are expended, any subsequent growth work will be negotiated in accordance with the terms of the contract, exclusive of the "Additional Government Requirements" clause.

g. The "Additional Government Requirements", if needed, shall be ordered during the contract period of performance, as may be modified, on the following schedule:

(1) No more than 75% of the hours during the first half of the contract availability

(2) No more than 50% of the hours during the third quarter of the contract availability

(3) No more than 30% of the hours during the fourth quarter of the contract availability

h. "Additional Government Requirement" manhours will be reported based on negotiated manhours rather than manhours worked and/or manhours paid.

i. The Contractor warrants that the fixed price of this contract does not include the amount for "ADDITIONAL GOVERNMENT REQUIREMENTS". This work will be added by supplemental agreement, contract modification or change order.

H-22 GROWTH AND NEW WORK

It is the Government's intention to ensure that any growth work identified during the overhaul be awarded to the initial prime contractor, pursuant to the "Additional Government Requirements" clause, only if a fair and reasonable price can be negotiated for such work. Additionally, it is the Government's intention to ensure any new work identified during the overhaul be awarded to the initial prime contractor by supplemental agreement, only if a fair and reasonable price can be negotiated for such work. If a fair and reasonable price cannot be negotiated for the above actions, the Government may, at its election, pursue any or all of the following courses of action: (1) Defer the work to a repair period after completion of the instant contract. (2) Accomplish the work using Government employees during the original overhaul period. Government employees may engage in and complete the assigned work while the ship is undergoing overhaul in the initial prime contractor's facility pursuant to the "Access to Vessels" clause. (3) Conduct a separate, competitive procurement for growth or new work. Performance will be during the original overhaul period. The initial prime contractor and other Master Ship Repair Agreement (MSRA) holders may enter this competition. If other than the initial prime contractor is successful, the successful contractor may engage in and complete the work while the ship is undergoing overhaul in the initial prime contractor's facility pursuant to the "Access to Vessels" clause (DOD FAR SUPP 52.217-7113).

The offeror shall include in its proposed price the cost of supporting one or more third parties (including government employees and/or other contractor's workers) at the overhaul site in performance of growth and/or new work, should the government elect to pursue such a course. Increased costs that may result from third party presence as described above, may include, but are not limited to: insurance; physical plant security; reasonable access for third party workers who must transit the contractor's facility or any other work site provided by the contractor at which the ship may be berthed; utilities used aboard the ship or in proximity of the ship in support of the overhaul; and similar requirements. Third party presence will occur only if the prime ship repair contractor proposes other than a fair and reasonable price. Contractors will price anticipated added expenses associated with third party presence as a contingency into the fixed price offered for performance of the specified work package. Contractors will be guided in arriving at this contingency price based on a risk assessment relative to the probability of proposing fair and reasonable prices versus reaching a potential impasse with the Government which would precipitate third party presence.

H-23 ORDER OF PRECEDENCE

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order: (a) the Schedule (excluding the Specifications); (b) Representations and other instructions; (c) Contract Clauses; (d) other documents, exhibits, and attachments; (e) the Specifications; and (f) the contractor's technical proposal if incorporated by reference.

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H-24 INDEMNIFICATION FOR ACCESS TO VESSELS

Notwithstanding any provision in the "Access to Vessels" clause (DOD FAR SUPP 52.217-7113), or any other clause of the contract, the Contractor agrees to allow officers, employees, and associates of the Government, or other prime contractors with the Government and their subcontractors, and officers, employees, and associates of offerors on other contemplated work, admission to the Contractor's facilities and access to the vessel without any further request for indemnification from any party, which has not been previously included in the contract price.

CONTRACT CLAUSES

SECTION I

FAR CLAUSES INCORPORATED BY REFERENCE

This Job Order incorporates the following clauses by reference, with the same force and effect as if they were given in full text. Citations are to the appropriate Federal Acquisition Regulation (FAR) and Department of Defense Federal Acquisition Regulation Supplement (DOD FAR SUPP) source. Copies of the FAR may be purchased from the U.S. Government Printing Office, Washington, D.C. 20402.

The clauses listed below which are marked with an asterisk do not apply to this Job Order.

(a) The clauses listed under this paragraph (a) are mandatory under the Master Agreement for Repair and Alteration of Vessels:

	DOD FAR SUPP	CLAUSE
(1)	52.217-7100	Definitions (FAR 52.202-1) (APR 1984)
(2)	52.217-7101	Changes (APR 1982)
(3)	52.217-7102	Extras (FAR 52.232-11) (APR 1984)
(4)	52.217-7103	Job Orders and Compensation (APR 1985)
(5)	52.217-7104	Inspection and Manner of Doing Work (APR 1982)
(6)	52.217-7105	Title (APR 1982)
(7)	52.217-7106	Payments (APR 1982) (set forth in full)
(8)	52.217-7107	Assignment of Claims (FAR 52.232-23) (APR 1984)
(9)	52.217-7108	Bonds (APR 1982)
(10)	52.217-7109	Federal, State, Local and Foreign Taxes (FAR 52.229-3 and FAR 52.229-5) (APR 1984)
(11)	52.217-7110	Default (APR 1982)
(12)	52.217-7111	Disputes (FAR 52.233-1) (APR 1984)
(13)	52.217-7112	Performance (APR 1982)
(14)	52.217-7113	Access to Vessel (MAY 1983)
(15)	RESERVED	
(16)	RESERVED	
(17)	RESERVED	
(18)	52.217-7117	Equal Opportunity Clause (FAR 52.222-26) (APR 1984)
(19)	52.217-7118	Officials Not to Benefit (FAR 52.203-1) (APR 1984)
(20)	52.217-7119	Covenant Against Contingent Fees (FAR 52.203-5) (APR 1984)
(21)	52.217-7120	Termination for Convenience of the Government (FAR 52.249-2) (APR 1984)

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(22)	52.217-7121	Authorization and Consent (FAR 52.227-1) (APR 1984)
(23)	52.217-7122	Notice and Assistance Regarding Patent & Copyright Infringement (FAR 52.227-2) (1984)
(24)	52.217-7123	Responsibility for Inspection (FAR 52.246-1) (APR 1984)
(25)	52.217-7124	Liability and Insurance (AUG 1983)
(26)	52.217-7125	Pricing of Adjustments (DOD FAR SUPP 52.243-7001) (APR 1984)
(27)	RESERVED	
(28)	RESERVED	
(29)	52.217-7128	Clean Air and Water (FAR 223-2) (APR 1984)
(30)	52.217-7129	Invoices (Use DOD FAR SUPP Clause 52.232-7000, OCT 1982)
(31)	52.217-7130	Guarantees (APR 1982)
(32)	52.217-7131	Discharge of Liens (APR 1982)
(33)	52.217-7132	Department of Labor Safety and Health Regulations for Ship Repairing (APR 1982)

(b) In addition to the clauses under (a) above, the following clauses <u>not</u> marked with an asterisk are applicable to this Job Order.

*(1)	52.217-7200	Workers' Compensation and War Hazard Insurance Overseas (FAR 52.228-4) (APR 1984)
(2)	52.217-7201	Buy American Act and the Balance of Payments Program (DOD FAR SUPP 52.225-7001) (APR 1985)
(3)	52.217-7202	Notice to the Government of Labor Disputes (FAR 52.222-1) (APR 1984)
*(4)	52.217-7203	Patent Indemnity (FAR 52.227-3) (APR 1984)
(5)	52.217-7204	Filing of Patent Applications (FAR 52.227-10) (APR 1984)
(6)	52.217-7205	Contract Schedule Subline Items Not Separately Priced (DOD FAR SUPP 52.204-7000) (APR 1984)
*(7)	52.217-7206	Reporting and Refund of Royalties (FAR 52.227-9) (APR 1984)
(8)	52.217-7207	Rights in Data and Computer Software (DOD FAR SUPP 52.227-7013, MAY 1981)
(9)	52.217-7208	Military Security Requirements (FAR 52.204-2) (APR 1984)
(10)	52.217-7209	Utilization of Small Business and Small Disadvantaged Business Concerns (FAR 52.219-8) (JUN 1985) and (FAR 52.219-9) (APR 1984)
(11)	52.217-7210	Examination of Records by Comptroller General (FAR 52.215-1) (APR 1984)
(12)	52.217-7211	Gratuities (FAR 52.203-3) (APR 1984)
(13)	52.217-7212	Convict Labor (FAR 52.222-3) (APR 1984)

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(14)	52.217-7213	Priorities, Allocations, and Allotments (FAR 52.212-8) (APR 1984)
(15)	52.217-7214	Utilization of Labor Surplus Area Concerns (FAR 52.220-3 and 52.220-4) (APR 1984)
(16)	52.217-7215	Limitation on Withholding of Payments (FAR 52.232-9) (APR 1984)
(17)	52.217-7216	Equal Opportunity Pre-Award Clearance of Subcontracts (FAR 52.222-28) (APR 1984)
(18)	52.217-7217	Subcontracts (FAR 52.244-1) (JAN 1986)
(19)	52.217-7218	Government Property (FAR 52.245-2) (APR 1984)
*(20)	52.217-7219	Federal, State, Local and Foreign Taxes (FAR 52.229-2) (APR 1984)
(21)	RESERVED	
(22)	52.217-7221	Price Reduction for Defective Cost or Pricing Data (FAR 52.215-22) (APR 1984)
(23)	52.217-7222	Duty Free Entry (FAR 52.225-10) (APR 1984)
(24)	52.217-7223	Duty Free Entry of Qualifying Country Supplies (DOD FAR SUPP 52.225-7008, AUG 1984)
**(25)	52.217-7224	Inspection System (FAR 52.246-11) (APR 1984)
*(26)	52.217-7225	Advance Payments (FAR 52.232-12) (APR 1984)
(27)	52.217-7226	Required Sources for Jewel Bearing and Related Items (FAR 52.208-1) (APR 1984)
(28)	52.217-7227	Required Sources for Miniature and Instrument Ball Bearings (DOD FAR SUPP 52.208-7000, JUL 1971)
(29)	52.217-7228	Interest (FAR 52.232-17) (APR 1984)
(30)	52.217-7229	Competition in Subcontracting (FAR 52.244-5) (APR 1984)
(31)	52.217-7230	Audit by Deparment of Defense (FAR 52.215-2) (APR 1984)
(32)	52.217-7231	Subcontractor Cost or Pricing Data (FAR 52.215-25) (APR 1984) - Modifications
(33)	52.217-7232	Value Engineering (FAR 52.248-1) (APR 1984)
(34)	52.217-7233	RESERVED
(35)	52.217-7234	Required Sources for Precision Components for Mechanical Time Devices (DOD FAR SUPP 52.208-7001, AUG 1971)
(36)	52.217-7235	New Material (FAR 52.210-5) (APR 1984)
(37)	52.217-7236	Government Surplus (FAR 52.210-7) (APR 1984)
(38)	52.217-7237	Utilization of Women-Owned Business Concerns (Over $10,000) (FAR 52.219-13) (APR 1984)
(39)	52.217-7238	Material Inspection and Receiving Report (DOD FAR SUPP 52.246-7000, DEC 1969)
(40)	52.217-7239	Protection of Government Buildings, Equipment and Vegetation (FAR 52.237-2) (APR 1984)
(41)	52.217-7240	Government Delay of Work (FAR 52.215-15) (APR 1984)
(42)	52.217-7241	Distribution of Defense Subcontracts Placed Overseas (DOD FAR SUPP 52.204-7005, JUN 1982)
(43)	52.217-7242	Safety Precautions for Ammunition and Explosives (DOD FAR SUPP 52.228-7007, SEP 1970)

** The blank in FAR 52.246-11 should read "NAVSEA Standard Item 009-04, Inspection System, Provide, dated 8 November 1985."

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(44)	52.217-7243	Cost Accounting Standards (FAR 52.230-3 and 52.230-4) (APR 1984)
(45)	52.217-7244	Notification of Changes (FAR 52.243-7) (APR 1984)
(46)	52.217-7245	Engineering Change Proposals (ECPs) (DOD FAR SUPP 52.243-7000, APR 1984)
(47)	52.217-7246	Change Order Accounting (FAR 52.243-6) (APR 1984)
(48)	52.217-7247	Contracts Conditioned Upon the Availability of Funds (FAR 52.232-18) (APR 1984)
(49)	52.217-7248	Preference for Domestic Specialty Metals (DOD FAR SUPP 52.225-7012, OCT 1980)
(50)	52.217-7249	Preference for United States Flag Air Carriers (FAR 52.247-63) (APR 1984)
*(51)	52.217-7250	Exclusionary Policies and Practices of Foreign Governments (DOD FAR SUPP 52.225-7019, JAN 1977)
(52)	52.217-7251	Hazardous Meterial Identification and Material Safety Data (FAR 52.223-2) (APR 1984)
(53)	52.217-7252	Certification of Requests for Adjustment of Relief Exceeding $100,000 (DOD FAR SUPP 52.233-7000, FEB 1980)
(54)	52.217-7253	Qualifying Country Sources as Subcontractors (DOD FAR SUPP 52.225-7002, OCT 1980)
(55)	52.217-7254	Stop Work Orders (FAR 52.212-13) (APR 1984)
(56)	52.217-7114	Certain Communist Areas (FAR 52.225-11) (APR 1984)
(57)	52.217-7115	Contract Work Hours and Safety Standards Act - Overtime Compensation (FAR 52.222-4) (APR 1984)
(58)	52.217-7116	Walsh-Healey Public Contracts Act (FAR 52.222-20) (APR 1984)
(59)	52.217-7126	Affirmative Action for Disabled Veterans and Veterans of the Vietnam Era (FAR 52.222-35) (APR 1984)
(60)	52.217-7127	Affirmative Action for Handicapped Workers (FAR 52.222-36) (APR 1984)
*(61)	52.217-7255	Subcontractor Cost or Pricing Data - Modifications - Sealed Bidding (FAR 52.214-28) (APR 1985)
(62)	52.217-7256	Subcontractor Cost or Pricing Data (FAR 52.215-24) (APR 1985)
*(63)	52.217-7257	Notice of Total Small Business Set-Aside (FAR 52.219-6) (APR 1984)
(64)	52.217-7258	Preference for Labor Surplus Area Concerns (FAR 52.220-1) (APR 1984)
*(65)	52.217-7259	Bid Guarantee (FAR 52.228-1) (APR 1984)
(66)	52.217-7260	Production Progress Report (FAR 52.242-2) (APR 1984)
*(67)	52.217-7261	Government Furnished Property (Short Form) (FAR 52.245-4) (APR 1984)

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(68)	52.217-7262	Clauses Incorporated by Reference (FAR 52.252-2) (APR 1984)
(69)	52.217-7263	Aggregate Pricing Adjustment (DOD FAR SUPP 52.215-7000, APR 1985)
(70)	52.217-7264	Small Business and Small Disadvantaged Business Subcontracting Plan (Master Plans) (DOD FAR SUPP 52.219-7000, APR 1984)
(71)	52.217-7265	Restrictive Markings on Technical Data (DOD FAR SUPP 52.227-7018, MAR 1975)
(72)	52.217-7266	Identification of Technical Data (DOD FAR SUPP 52.227-7029, MAR 1975)
(73)	52.217-7267	Data Requirements (DOD FAR SUPP 52.227-7031) (APR 1972)
(74)	52.217-7268	Certain Communist Areas (FAR 52.225-11) (APR 1984)
(75)	52.217-7269	Plant Protection (AUG 1985)
(76)	52.242-7003	Certification of Indirect Costs (APR 1986)
(77)	52.222-7004	Access to Vessels by Non-U.S. Citizens

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I-7 PAYMENTS (DOD FAR SUPP 52.217-7106) (APR 1982)

(a) Progress payments (which are hereby defined as payments prior to completion of work in progress under any job order) shall be made as the work progresses upon the submission by the contractor of invoices therefore in such form and with such copies as the Contracting Officer may prescribe. Such invoices may be submitted semi-monthly or more frequently if expenditures by the contractor warrant. No progress payment will be required under this clause upon invoices aggregating less than $5,000. Such progress payments shall be made upon the basis of the value, computed on the price of the job order, of labor and materials incorporated in the work, materials suitably stored at the site of the work, and preparatory work already completed, all as estimated or approved by the Contracting Officer, less the aggregate of any previous payments. For the purpose of enabling the Contracting Officer to make such estimate or give such approval, the Contractor will furnish to the Contracting Officer, upon request, such reports concerning expenditures on the work to date as may be requested.

(b) In making such progress payments as defined in paragraph (a), there shall be retained as appropriate: 10% for small business concerns or 20% for other than small business concerns, of the amount estimated or approved by the Contracting Officer pursuant to paragraph (a) above until final completion and acceptance of all work covered by the job order.

(c) If the Contracting Officer so directs, progress payments under paragraph (a) of this clause shall be based upon the price of the job order as adjusted from time to time as a result of change orders under Clause 52.217-7101 entitled "CHANGES" hereof. If the Contracting Officer has not directed that the increase or decrease in price as a result of any change order be taken into account for purposes of progress payments under paragraph (a) of this clause, (i) payments on account of such increases shall be made from time to time when the increase is determined pursuant to Clause 52.217-7101 entitled "CHANGES" and (ii) reductions on account of such decreases shall be made for the purposes of subsequent progress payments as soon as the amounts thereof are determined pursuant to Clause 52.217-7101 entitled "CHANGES" hereof.

(d) Upon completion of the work under a job order and final inspection and acceptance thereof and upon submission of invoices therefore in such form and with such copies as the Contracting Officer may prescribe, the Contractor shall be paid for the price of the job order, as adjusted pursuant to Clause 52.217-7101 entitled "CHANGES" hereof, less any performance reserves deemed necessary by the Contracting Officer, and less the amount of all previous payments.

(e) All materials, equipment, and other property or work in process covered by progress payments made by the Government shall upon the making of such progress payments become the sole property of the Government, and shall be subject to the provisions of Clause 52.217-7105 entitled "TITLE" hereof.

(End of Clause)

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I-76 CERTIFICATION OF INDIRECT COST (APRIL 1986)

(a) The Contractor shall certify any proposal to establish or modify billing rates or to establish final indirect cost rates in the form set forth in paragraph (b) of this clause. The certificate shall be signed on behalf of the Contractor by an individual of the Contractor's organization at a level no lower than a vice president or chief financial officer of the business segment of the Contractor that submits the proposal. The Contractor understands that if the Contractor fails to submit a certificate as required herein, payments on account of indirect cost shall be at rates unilaterally established by the Government.

(b) Certificate of Indirect Costs. The certificate of indirect costs shall read as follows:

CERTIFICATE OF INDIRECT COSTS

This is to certify that to the best of my knowledge and belief:

1. I have reviewed the indirect cost proposal submitted herewith:

2. All costs included in this proposal _____ (identify, _____ date) _____ to establish billing or final indirect cost rates for _____ (identify, period covered by rate) _____ are allowable in accordance with the requirements of contracts to which they apply and with the cost principles of the Department of Defense applicable to those contracts;

3. This proposal does not include any costs which are unallowable under applicable cost principles of the Department of Defense, such as (without limitation): advertising and public relations costs, contributions and donations, entertainment costs, fines and penalties, lobbying costs, defense of fraud proceedings, and good will; and

4. All costs included in this proposal are properly allocable to Defense contracts on the basis of a beneficial or causal relationship between the expenses incurred and the contracts to which they are allocated in accordance with applicable acquisition regulations.

I declare under penalty of perjury that the foregoing is true and correct.

Firm: _____

Signature: _____

Name of Corporate Official: _____

Title: _____

Date of Execution: _____

(End of clause)

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I-77 Access To Vessels by Non-U.S. Citizens.

ACCESS TO VESSELS BY NON-U.S. CITIZENS

(a) Title 32, Code of Federal Regulations (CFR) Section 765.5(c) provides that no person not known to be an American citizen of good standing and repute shall be eligible for access to naval vessels, work sites and adjacent areas when said vessels are under construction, conversion, overhaul or repair, except upon a finding by COMNAVSEA that such access should be permitted in the best interest of the U.S. The contractor shall establish procedures to comply with the requirements of the above noted regulation as implemented by the provisions of this clause and NAVSEAINST 5500.3 dated 22 October 1985.

(b) If the contractor desires to employ non-U.S. citizens in the performance of work under this contract/agreement that requires access, as specified in paragraph (a) to this clause, approval must be obtained prior to award for each contract/agreement where such access is required. to request such approval, the contractor shall submit to COMNAVSEA via the cognizant Contract Administration Office (CAO), an Access Control Plan (ACP) which shall contain, as a minimum, the following information:

(1) Badge/Pass oriented identification, access and movement control system for non-U.S. citizen employees with the badge/pass to be worn or displayed on outer garments at all times while on the contractor's facilities and when performing shipboard work.

(i) Badges must be of such design and appearance that permit easy recognition to facilitate quick and positive identification.

(ii) Access authorization and limitations for the bearer must be clearly established and in accordance with applicable security regulations and instructions.

(iii) A control system, which provides rigid accountability procedures for handling lost, damaged, forgotten and no longer required badges, must be established.

(iv) A badge or pass check must be performed at all points of entry to the contractor's facility or by a site supervisor for work performed on ships outside of the contractor's plant.

(2) Contractor's plan for ascertaining citizenship and screening employees for security risk.

(3) Data reflecting the number, nationality and positions held by non-U.S. citizen employees.

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(4) Contractor's plan for ensuring subcontractor compliance with the provisions of the contractor's ACP.

(5) These conditions and controls are intended to serve as guidelines representing the minimum requirements of an acceptable ACP. They are not meant to restrict the contractor in any way from imposing additional controls necessary to tailor these requirements to a specific facility.

(c) An ACP which has been approved for a specific Master Ship Repair Agreement (MSRA) or Agreement for Boat Repair (ABR) is valid and applicable to all job orders solicited under that agreement.

(d) The contractor shall fully comply with COMNAVSEA approved ACPs. Noncompliance by the contractor or subcontractor serves to cancel the authorization previously granted. In which case the contractor shall be precluded from the continued use of non-U.S. citizens on this contract/agreement until such time as compliance with an approved ACP is demonstrated and upon a determination by the CAO that the Government's interests are protected. Further, the Government reserves the right to cancel previously granted authority when such cancellation is determined to be in the Government's best interest. Use of non-U.S. citizens, without an approved ACP or when a previous authorization has been cancelled, will be considered a violation of Title 32 CFR 765.5 (See Title 32 CFR 765.5(d)). Upon confirmation by the CAO of such violation, this contract, agreement or any job order issued under this agreement may be terminated.

(e) Prime contractors have full responsibility for the proper administration of the approved ACP for all work performed under this contract/agreement regardless of the location of the vessel and must ensure compliance by all subcontractors, technical representatives and other persons granted access to naval vessels, adjacent areas and work sites.

(f) In the event the contractor does not intend to employ non-U.S. citizens in the performance of work under this contract, but has non-U.S. citizen employees, they must be precluded from access to the vessel and its work site and those shops where work on ship's equipment is being performed. This same restriction applies to other non-U.S. citizens who have access to the contractors facilities (i.e. for accomplishing facility improvements, from foreign crewed vessels within his facility, etc.).

(g) In the event the contractor chooses not to employ non-U.S. citizens under this contract, agreement or any job order issued under this agreement, he must so state in writing.

(DFARS 52.222-7004)

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PART III
LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS

SECTION J
LIST OF ATTACHMENTS

A. Any contract awarded as a result of this solicitation will consist of the following sections of this solicitation, and the documents, exhibits, and attachments described in paragraph B below:

I. Part I - The Schedule (Sections A through H)

II. Part II - Contract Clauses (Section I)

III. Part III - List of Documents, Exhibits, and Other Attachments (Section J)

IV. Any other material and/or documents specifically incorporated by reference into the contract.

B. Part IV of the solicitation shall not be incoporated physically into the contract. However, Section K, "Representations, Certifications and Other Statements of Offerors or Quoters" shall be retained in the contract file, and acceptance of a proposal under this contract shall incorporate Section K by reference in the resultant contract. (FAR 15.406-1(b))

C. Documents, exhibits, and other attachments that will form a part of this contract are as follows:

	ITEM	TITLE/DESCRIPTION
**	Exhibits A & B	Contract Data Requirement List (Note: The PR Number on individual CDRLs is not correct; it should read N00024-87-PR-25037.)
**	J-1	Work Item Specification for USS PAUL F. FOSTER (DD-964) (Specifications Provided under separate cover)
**	J-2	Work Items 100-00-000 through 900-00-000 for USS PAUL F. FOSTER (DD-964)

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J-3	DD-Form 254, DOD Contract Security Classification Specification (Confidential Enclosure (57), ID: 03B-57, Silencing Data, Ship, will be provided at award to the successful offeror)
** J-4	Provisioning Performance Schedule (PPS)
J-5	Accounting and Appropriation Data

** NOTE: EXHIBITS "A" and "B" and ITEMS J-1, J-2 and J-4, as amended and as provided previously with RFP N00024-87-R-8508, are incorporated by reference into the subject contract.

The Price Proposal, dated 6 March 1987, and the Technical Proposal, dated 23 January 1987, as amended 6 March 1987, submitted by Northwest Marine Iron Works, are incorporated by reference into the subject contract.

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01.IDENTIFYING DATA
ID: 028-31
CL: U
SU: HARPOON WEAPON SYSTEM
OC: NAVAIR(AIR-720);DTIC-A
CA: COMNAVAIR
OD: 74-11-04
CD: 84-03-01
RD: 86-03-01

02.THREAT/BACKGROUND: REFER TO OCP #77, REV A, APPROVED ON 18 MAY 73 (NOTAL)

03.MISSION

A.PROVIDES A SHIP, AIR, AND SUBMARINE LAUNCHED ALL-WEATHER ANTI-SHIP CRUISE MISSILE EFFECTIVE AGAINST VARIOUS COMBATANTS SUCH AS AIRCRAFT CARRIERS, DESTROYERS, LIGHT CRUISERS, SURFACED SUBMARINES, PATROL CRAFT AND OTHER (E.G., MERCHANT, ETC.) ENEMY SHIPPING

B.MISSILE UTILIZES A COMPUTER, ALTITUDE REFERENCE MIDCOURSE CONTROL AND A RADAR SEEKER FOR TARGET ACQUISITION AND TERMINAL GUIDANCE. MISSILE IS CAPABLE OF BEING LAUNCHED FROM THE SHIP, AIR, AND SUBMARINE PLATFORMS AND LITTORAL LAUNCH. CURRENT U.S. LAUNCH PLATFORMS ARE: FF-1052, DDG, DD-963, CG, CGN, PHM, AND FFG-7 CLASS SHIPS; P-3 AND A-6 AIRCRAFT AND SSN-594, 637 AND 688 CLASS SUBMARINES. PLANNED PLATFORMS INCLUDE A-7, F/A-18 AND S-3 AIRCRAFT

C.THE HARPOON COMMAND AND LAUNCH EQUIPMENT, CONSISTING OF CONTROL PANELS, DATA PROCESSOR AND INTERFACE UNITS, HAS BEEN DEVELOPED CONCURRENTLY WITH THE HARPOON MISSILE. THESE EQUIPMENTS HAVE BEEN SUCCESSFULLY INTEGRATED INTO SOME OF THE LAUNCH PLATFORMS. ON OTHER PLATFORMS, EXISTING ON BOARD EQUIPMENT HAS BEEN ADAPTED TO THE LAUNCHING OF HARPOON

04.FINANCIAL: U

05.MILESTONES: U

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS (SEE NOTES BEFORE RELEASING ANY INFORMATION)

A.MISSILE/LAUNCH PLATFORM
(1)SUBMARINE LAUNCH
(A)DEPTH-MAX/MIN/ANY DEPTH OVER 400 FT: C-OADR
(B)SUBMARINE SPEED BOUNDARIES: C-OADR
(C)UNDERWATER CAPSULE ACCELERATION AND TRAJECTORY: U
(D)LAUNCH LIMITING SEA OR WEATHER CONDITIONS: C-OADR
(2)SHIP LAUNCH
(A)LIMITING SEA OR WEATHER CONDITIONS: C-OADR
(B)REVEALING MAX PHM SPEED: C-OADR
(3)AIR LAUNCH
(A)LAUNCH ALTITUDE - MAX/MIN: C-OADR
(B)LAUNCH VELOCITIES - MAX/MIN: C-OADR
(4)DETECTABILITY
(A)RADAR CROSS SECTION: S-OADR
(B)IR CROSS SECTION: S-OADR

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(C)VISIBLE: C-OADR
(D)AUDIBLE: C-OADR
(5)DESIGN INFORMATION
(A)GENERAL: C-OADR
(B)SPECIFIC: S-OADR
(6)LETHALITY/EFFECTIVENESS
(A)KILL PROBABILITY: C-OADR
(B)HIT PROBABILITY - AVERAGE: C-OADR
(C)HIT PROBABILITY - SPECIFIC SHIP CLASS: C-OADR
(D)ACCURACY - AIMPOINT TO HITPOINT: C-OADR
(7)MANEUVERABILITY
(A) G LEVEL - MAX: C-OADR
(8)OPERATIONAL READINESS TIME/CYCLE TIME
(A)REACTION TIME: C-OADR
(B)RELOAD TIME: C-OADR
(C)TARGET INTERCEPT TIME BETWEEN MISSILES - CONTROLLABLE MIN OR AVG: C-OADR
(9)TRAJECTORY
(A)CRUISE ALTITUDE (BLOCKS I & IA): U
(B)CRUISE ALTITUDE (BLOCKS IB, IC, II): C-OADR
(C)SEA SKIM ALTITUDES (RELATIVE TO SEA STATE): S-OADR
(D)WAYPOINT CAPABILITY PARAMETERS: C-OADR
(E)FLIGHT ELEVATION PROFILES (NO ALTITUDES): U
(F)TERMINAL MANEUVERS (ANGLES, ANGLE RATES, GS, DISTANCES): C-OADR
(G)DESCRIPTIVE TERMS & ACRONYMS: U
(10)RANGE
(A)KINEMATIC MAX/MIN: C-OADR
(B)60 NM CAPABILITY (BLOCK I, IB): U
(C)EXTENDED CAPABILITY (BLOCK IC, II): C-OADR
(11)RELIABILITY/MAINTAINABILITY
(A)REQUIREMENTS: U
(B)DETAILED FIELD/FLEET FIRINGS REPORTS: C-OADR
(C)CUMULATIVE SUCCESS/FAILURE REPORTS: U
(D)DEGRADED PERFORMANCE AS OPERATIONAL DEFICIENCY: C-OADR
(12)SPEED/VELOCITY
(A)CRUISE: U
(B)MAXIMUM: C-OADR
(C)BOOST VELOCITY PROFILE: U
(D)MANEUVER: C-OADR
(13)WEIGHT AND C.G.
(A)TOTAL MISSILE OR ANY PORTION THEREOF: U
(14)SURVIVABILITY
(A) AAA: S-OADR
(B) SAM: S-OADR
(C) ECM: S-OADR
(D) NUCLEAR EFFECTS: S-OADR
(15)VULNERABILITY
(A)VULNERABLE AREAS: S-OADR
(B)EFFECTIVE FRAGMENT/PROJECTILE MASS/VELOCITY: S-OADR
(C)RESPONSE TO FRAGMENT/PROJECTILE HIT: S-OADR
(D)RESPONSE TO ECM: S-OADR

B.GUIDANCE SECTION
(1)COUNTER COUNTERMEASURES CAPABILITY: S-OADR
(2)DESIGN INFORMATION
(A)GENERAL: C-OADR
(B)SPECIFIC: S-OADR
(3)ALGORITHMS: S-OADR

C.SEEKER
(1)RANGE

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(A)DETECTION: C-OADR
(B)LOCK ON: C-OADR
(2)SIGNATURE
(A)SPECIFIC RADAR FREQUENCY: C-OADR
(B)FREQUENCY JITTER EXTENT/SPEED: C-OADR
(C)RADAR FREQUENCY BAND: U
(D)POWER: C-OADR
(E)PRF: C-OADR
(F)SCAN RATES: C-OADR
(G)SEARCH PATTERNS: C-OADR
(H)PULSE WIDTH: C-OADR
(I)POLARIZATION: C-OADR
(3)DESIGN CHARACTERISTICS
(A)RESOLUTION (RANGE & ANGLE): C-OADR
(B)SENSITIVITY: C-OADR
(C)APERTURE: U
(D)FIELD OF VIEW: U
(E)MODES OF OPERATION (DEFINED): S-OADR
(F)ANTENNA GAIN, BANDWIDTH: C-OADR
(G)RANGE TRACKER: S-OADR
(H)TARGET ACQUISITION PRIORITY: S-OADR
(I)LOGIC: S-OADR
(J)ECCM CAPABILITY/MODES: S-OADR
(K)AIM POINT: S-OADR

D.SHIP EMITTER HOMER
(1)FREQUENCY COVERAGE: S-OADR
(2)ANGULAR COVERAGE: C-OADR
(3)SIGNAL SORTING CAPABILITY: S-OADR
(4)SENSITIVITY: C-OADR
(5)ECCM: S-OADR

E.ALTIMETER 642AS4400
(1)ECCM: S-OADR
(2)RESPONSE TO ECM: S-OADR
(3)RANGE: U
(4)SIGNATURE
(A)FREQUENCY BAND: U
(B)SPECIFIC FREQUENCY: C-OADR
(C)ANTENNA PATTERNS: C-OADR
(D)WAVE FORM: C-OADR
(E)POWER: C-OADR
(F)POLARIZATION: C-OADR
(G)FREQUENCY DEVIATION: C-OADR
(H)SIDELOBES: C-OADR
(I)SWEEP TIME: C-OADR
(5)DESIGN CHARACTERISTICS
(A)ANTENNA GAIN: U
(B)IF: C-OADR
(C)SENSITIVITY: C-OADR

F.ALTIMETER 642 AS 4100
(1)ECCM OR RESPONSE TO ECM: S-OADR
(2)SPECIFIC FREQUENCY: C-OADR
(3)PRF: C-OADR
(4)ALL OTHER INFORMATION: U

G.WARHEAD SECTION
(1)DESIGN INFORMATION (CONVENTIONAL)
(A)GENERAL: U
(B)SPECIFIC: C-OADR
(2)DESIGN INFORMATION (NUCLEAR)
(A)GENERAL: CRD
(B)SPECIFIC: SRD

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(C)CNWDI (SPECIAL CLEARANCE REQUIRED): SRD

H.WARHEAD
(1)LETHALITY/CRITICAL EFFECTS: S-OADR
(2)BURST PATTERN: C-OADR
(3)VULNERABILITY TO IMPACTS: S-OADR
(4)TOTAL/HE WEIGHT: U
(5)YIELD: SRD
(6)TRACK TEST TARGETS: U

I.CONTACT FUZE (CONVENTIONAL)
(1)VULNERABILITY TO FRAGMENTS/PROJECTILES: S-OADR
(2)ALL OTHER INFORMATION: U

J.FUZING (NUCLEAR): SRD

K.EXERCISE SECTION
(1)CURRENT: U
(2)SECURE: S-OADR

L.SUSTAINER SECTION
(1)DESIGN INFORMATION: U
(2)FUEL TYPE AND CAPACITY: U
(3)CAPACITY: U

M.TURBINE ENGINE
(1)SPECIFIC FUEL CONSUMPTION: U
(2)THRUST: U
(3)IR SIGNATURE: S-OADR

N.BOOSTER (REFER TO OPNAVINST C5513.2B, ENCL (48))

O.CANISTER: U

P.CAPSULE: U
(1)LAUNCH DEPTHS (SEE O6A(1)(A) IB1D): C-OADR

Q.HACLS, HSCLS, EHCLS
(1)REACTION TIME: C-OADR
(2)LAUNCH CYCLE TIME: C-OADR
(3)DEGRADED PERFORMANCE AS OPERATIONAL DEFICIENCY: C-OADR
(4)ALL OTHER INFORMATION: U

O7.OPERATIONAL AND TACTICAL

A.REFER TO HARPOON LAUNCH PLATFORM FOR INFORMATION (O6(1), O6(2), O6(3) IB1D)

O8.HARDWARE

A.MISSILE
(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

B.GUIDANCE SECTION
(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

C.SEEKER
(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

D.SHIP EMITTER HOMER

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(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

E.ALTIMETER 642 AS 4400
(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

F.ALTIMETER 642 AS 4100
(1)END ITEM: U
(2)EXTERNAL VIEW: U

G.WARHEAD SECTION (H.E.)
(1)END ITEM: U
(2)EXTERNAL VIEW: U

H.WARHEAD (H.E.)
(1)END ITEM: U
(2)EXTERNAL VIEW: U

I.CONTACT FUZE (H.E.)
(1)END ITEM: U
(2)EXTERNAL VIEW: U

J.WARHEAD SECTION (NUCLEAR)
(1)END ITEM: SRD
(2)EXTERNAL VIEW: C-OADR

K.WARHEAD (NUCLEAR)
(1)END ITEM: SRD
(2)EXTERNAL VIEW: C-OADR

L.FUZE (NUCLEAR)
(1)END ITEM: SRD
(2)EXTERNAL VIEW: C-OADR

M.EXERCISE SECTION
(1)END ITEM: U
(2)EXTERNAL VIEW: U

N.SUSTAINER SECTION
(1)END ITEM: U
(2)EXTERNAL VIEW: U

O.TURBINE ENGINE
(1)END ITEM: U
(2)EXERCISE SECTION: U

P.BOOSTER
(1)END ITEM: U
(2)EXTERNAL VIEW: U

Q.CANISTER
(1)END ITEM: U
(2)EXTERNAL VIEW: U

R.CAPSULE
(1)END ITEM: U
(2)EXTERNAL VIEW: U

S.HACLS, HSCLS, AND EHCLS
(1)END ITEM: U
(2)EXTERNAL VIEW: U

09.OTHER

(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

E.ALTIMETER 642 AS 4400
(1)END ITEM: C-OADR
(2)EXTERNAL VIEW: U

F.ALTIMETER 642 AS 4100
(1)END ITEM: U
(2)EXTERNAL VIEW: U

G.WARHEAD SECTION (H.E.)
(1)END ITEM: U
(2)EXTERNAL VIEW: U

H.WARHEAD (H.E.)
(1)END ITEM: U
(2)EXTERNAL VIEW: U

I.CONTACT FUZE (H.E.)
(1)END ITEM: U
(2)EXTERNAL VIEW: U

J.WARHEAD SECTION (NUCLEAR)
(1)END ITEM: SRD
(2)EXTERNAL VIEW: C-OADR

K.WARHEAD (NUCLEAR)
(1)END ITEM: SRD
(2)EXTERNAL VIEW: C-OADR

L.FUZE (NUCLEAR)
(1)END ITEM: SRD
(2)EXTERNAL VIEW: C-OADR

M.EXERCISE SECTION
(1)END ITEM: U
(2)EXTERNAL VIEW: U

N.SUSTAINER SECTION
(1)END ITEM: U
(2)EXTERNAL VIEW: U

O.TURBINE ENGINE
(1)END ITEM: U
(2)EXERCISE SECTION: U

P.BOOSTER
(1)END ITEM: U
(2)EXTERNAL VIEW: U

Q.CANISTER
(1)END ITEM: U
(2)EXTERNAL VIEW: U

R.CAPSULE
(1)END ITEM: U
(2)EXTERNAL VIEW: U

S.HACLS, HSCLS, AND EHCLS
(1)END ITEM: U
(2)EXTERNAL VIEW: U

09.OTHER

01.IDENTIFYING DATA
ID: 02B-83
CL: U
SU: ATTACK WARNING AND PROTECTION SYSTEMS
SU: (AWAPS)
OC: NAVWPNCEN/WPAFB;DTIC-D
CA: COMNAVWPNCEN
OD: 75-03-25
CD: 84-04-01
RD: 86-04-01

02.THREAT/BACKGROUND: ENEMY SURFACE-TO-AIR AND AIR-TO-AIR GUIDED MISSILE SYSTEMS ARE A CONTINUOUS THREAT TO THE U.S. FORCES TACTICAL AIRCRAFT. TO COUNTER THE THREAT OF THESE MISSILES THIS JOINT NAVY/AIR FORCE PROGRAM IS DEVELOPING A RADAR AS A COMPONENT OF AN ATTACK WARNING AND PROTECTION SYSTEM (AWAPS). THE INFORMATION CLASSIFIED BY THIS GUIDE, IF COMPROMISED, WOULD PROVIDE FOREIGN POWERS WITH CHARACTERISTICS AND PERFORMANCE DATA RELATIVE TO THIS RADAR DEVELOPMENT THAT COULD BE USED TO DEVELOP TACTICAL OPTIONS AS WELL AS COUNTER-COUNTERMEASURES AGAINST U.S. WEAPON SYSTEMS OF THIS DESIGN.

03.MISSION: THIS PROGRAM IS DIRECTED AT DEVELOPING A WARNING RADAR AS A COMPONENT OF A COMPLETE COUNTERMEASURES SYSTEM TO PROTECT U.S. AIRCRAFT FROM FOREIGN MISSILE THREATS

04.FINANCIAL: U

05.MILESTONES

A.MILESTONE INFORMATION WHICH DOES NOT REVEAL IOC: U

B.IOC DATES: C (DECLASSIFY 30 DAYS AFTER IOC HAS OCCURRED)

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.ACCURACY (RANGE, VELOCITY AND BEARING): C-88

B.ALTITUDE (MINIMUM OPERATIONAL): C-88

C.RANGE LIMITATIONS (MAXIMUM DETECTION ACQUISITION AND TRACKING RANGES): C-88

D.RESOLUTION (RANGE, VELOCITY AND BEARING): C-88

E.SIGNATURE CHARACTERISTICS
(1)ALPHABETICAL FREQUENCY BAND (WITHOUT SUB-DESIGNATOR): C-88
(2)NUMERICAL FREQUENCY BANDWIDTH: C-88
(3)SPECIFIC FREQUENCY: S-88 (RADAR FREQUENCIES ONCE THEY HAVE BEEN RADIATED UNDER OPERATIONAL OR TEST CONDITIONS SHOULD BE DOWNGRADED TO C-88)
(4)SPECIFIC WAVEFORM & MODULATION CHARACTERISTICS: C-88
(5)POWER OUTPUT: C-88

F.SYSTEM CAPABILITY
(1)SPECIFIC ANTENNA PATTERN CHARACTERISTICS: C-88
(2)MINIMUM DISCERNIBLE SIGNAL: C-88
(3)RADAR CROSS-SECTION INFORMATION: C-88
(4)SIGNAL PROCESSING LOGIC: C-88
(5)PROBABILITY OF FALSE ALARMS: C-88

(6)EFFECTIVENESS (TENTATIVE, THEORETICAL, PROVEN): C-88

G.VULNERABILITY TO ECM/ECCM
(1)COUNTERMEASURES: S-88
(2)COUNTER-COUNTERMEASURES: S-88
(3)DESIGN AND ACHIEVED GOALS: S-88
(4)DETAILS OF ECM CIRCUITRY: S-88

H.THREAT TARGET CHARACTERISTICS
(1)THE THREAT CHARACTERISTICS ARE TO BE CLASSIFIED IAW THE APPROPRIATE DOCUMENTS OR GUIDELINES WHICH PERTAIN TO SPECIFIC THREATS.

I.AIRCRAFT CHARACTERISTICS
(1)STATEMENTS WHICH MAY REVEAL CLASSIFIED INFORMATION PERTAINING TO AIRCRAFT STRUCTURE, DESIGN AND PERFORMANCE CHARACTERISTICS SHOULD BE CLASSIFIED IAW THE APPROPRIATE GUIDELINES FOR THE SPECIFIC AIRCRAFT

07.OPERATIONAL AND TACTICAL

A.TEST AND EVALUATION
(1)SPECIFIC OPERATIONAL TEST AND EVALUATION DATA SHALL BE CLASSIFIED IAW TOPICS OF THIS GUIDE
(2)LOGISTICS AND SUPPORT: U (UNLESS INFORMATION IS REVEALED REQUIRING CLASSIFICATION BY OTHER TOPICS OF THIS GUIDE OR FOR OPERATIONAL SECURITY PURPOSES)

B.DEPLOYMENT DATA
(1)TACTICS DEVELOPED FOR OPERATIONAL USE: C-88 (UNLESS INFORMATION REQUIRING A HIGHER CLASSIFICATION BY THIS GUIDE IS REVEALED)

08.HARDWARE

A.CLASSIFICATION OF END ITEM: C-88

B.EXTERNAL VIEWS: U

C.INTERNAL VIEWS: U

09.OTHER: NONE

10.BRIEF JUSTIFICATION: N/A

11.SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

01.IDENTIFYING DATA
ID: 03B-06
CL: U
SU: ASROC MISSILE
OC: NAVSEA(09B2):DTIC-B
CA: COMNAVSEA
OD: 66-12-20
CD: 84-10-01
RD: 86-10-01

02.THREAT/BACKGROUND: NOT APPLICABLE

03.MISSION: NOT APPLICABLE

04.FINANCIAL

A.UNIT COST: U

B.BUDGETARY DATA: U

05.MILESTONES

A.INDIVIDUAL, CONTRACT QUANTITIES: U

B.DELIVERY SCHEDULES: U

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.NUCLEAR WARHEAD AND OTHER NUCLEAR INFORMATION CONCERNING ASROC: REFER TO OPNAVINST S5513.9B, ENCL (3) (NOTAL) FOR SPECIFIC GUIDANCE

B.ACCURACY: C-OADR

C.MISS DISTANCE OR CIRCULAR ERROR OF PROBABILITY (CEP): C-OADR

D.MINIMUM SAFE RANGE WITH NUCLEAR WARHEAD MK 44, DEPTH CHARGE MK 17, MK 44 TORPEDO OR MK 46 TORPEDO: C-OADR

E.MAXIMUM RANGE UNDER ANY CONDITION: C-OADR

F.RELIABILITY: C-OADR

G.TOTAL IMPULSE: C-OADR

H.PROPELLANT BURN TIME: C-OADR

I.THRUST: C-OADR

J.MAXIMUM OR MINIMUM TIME FROM LAUNCH TO BURST: C-OADR

K.PREPARE TO LAUNCH TIME, MINIMUM: C-OADR

L.FUZE ASSEMBLY DATA: C-OADR

M.WEIGHT OF PROPELLANT WHEN ASSOCIATED WITH ASROC: C-OADR

N.DETAILED OPERATION OF WEAPON, EXCLUSIVE OF WARHEAD W44-O AND DEPTH CHARGE MK 17 MOD 4: C-OADR

O.READY-TO-FIRE LIFE IN LAUNCHER WITH WARHEAD W44 AND DEPTH

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CHARGE MK 17: C-OADR

P.FACT THAT ASROC HAS NUCLEAR CAPABILITY: U

Q.ASSOCIATION OF WARHEAD W44-O OR DEPTH CHARGE MK 17 MOD 1 WITH ASROC: U

R.SIZE: U

S.SHAPE: U

T.WEIGHT AND/OR CENTER OF GRAVITY OF ASROC MISSILE AND/OR WARHEAD W44-O: U

U.ASSOCIATION OF SPECIFIC DETECTION AND/OR FIRE CONTROL SYSTEM(S): U

V.TIME CYCLE/SEPARATION QUANTITIES: U

W.FACT THAT ASROC IS A SHIP-LAUNCHED, ANTI-SUBMARINE, UNGUIDED, SOLID FUELED, ROCKET-PROPELLED MISSILE OR ROCKET-THROWN DEPTH CHARGE: U

X.PROPELLANT FORMULATION: U

Y.PROPELLANT GRAIN CONFIGURATION: U

Z.PROPELLANT GEOMETRY: U

AA.FACT THAT ASROC CAN BE LAUNCHED SINGULARLY AND IN SALVOS AS RAPIDLY AS TARGETS CAN BE TRACKED: U

BB.STORAGE LIFE OF THE WEAPON IN PRESERVED, DISASSEMBLED STATUS: U

07.OPERATIONAL AND TACTICAL

A.WORLD-WIDE ASSETS WITHOUT NUCLEAR CAPABILITY: C (DECL 6 YRS AFTER ORIGIN)

B.LOCATION OF TEST SITE, IN COMBINATION WITH A SPECIFIC TEST DATE: C-OADR

08.HARDWARE

A.FUZE ASSEMBLY MK 254 ALL MODS: C-OADR

B.ADAPTION KIT MK 28 MOD 1 IF FUZE IS INSTALLED: C-OADR

C.EXTERNAL VIEW OF ALL ASROC COMPONENTS, WARHEAD MK 44-O AND DEPTH CHARGE MK 17 MOD O: U

D.ROCKET MOTORS MKS 1 AND 37: U

E.ADAPTION KIT MK 28 (LESS FUZE MK 254): U

F.CONTROL CABLE MK 10: U

G.NOSE CAP MK 7: U

H.THERMAL BATTERY MK 79: U

I.AIRFRAME MKS 4, 5 AND 8: U

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J.FINS MK 4: U

K.IGNITION SEPARATION ASSEMBLY MK 3: U

L.IGNITER MK 251: U

M.POWER SUPPLY MK 112: U

N.NUCLEAR COMPONENTS: REFER TO OPNAVINST S5513.9A, ENCL (03) (NOTAL)

O.THE FOLLOWING MISSILE TRAINING HARDWARE AND ALL ASSOCIATED DOCUMENTATION ARE UNCLASSIFIED:
(1)GUIDED MISSILE TRAINING ROUND (GMTR) MK 60 ALL MODS
(2)TRAINING SURFACE-TO-AIR MISSILE (TSAM) MK 16 ALL MODS

P.COMPUTER HARDWARE IS UNCLASSIFIED UNTIL A CLASSIFIED PROGRAM IS INSTALLED, AT WHICH TIME THE COMPUTER HARDWARE ASSUMES THE SAME CLASSIFICATION OF THE PROGRAM

09.OTHER

A.REFER TO OPNAVINST S5513.3B, ENCL (28) FOR GUIDANCE ON GUIDED MISSILE FUZES

B.THE ASSOCIATION OF THE POPULAR NAME OR OFFICIAL DESIGNATION OF A PARTICULAR MISSILE WITH ANY OF THE FOLLOWING IS UNCLASSIFIED:
(1)ITS CLASS OR BASIC MISSION (E.G., AIR-TO-AIR, SURFACE-TO-SURFACE, SURFACE-TO-AIR, ETC.)
(2)ITS MODE OF GUIDANCE, EXPRESSED IN GENERAL TERMS (E.G., BEAM-RIDING, HOMING, ETC.)
(3)A CONVENTIONAL WARHEAD IDENTIFIED BY MARK (MK)/MODIFICATION (MOD)OR TYPE
(4)ANY TYPE OF SHIP OR AIRCRAFT OR ANY SPECIFIC SHIP OR AIRCRAFT
(5)ANY PARTICULAR LAUNCHING EQUIPMENT, WEAPONS DELIVERY RADARS, EXTERNAL GUIDANCE SYSTEMS, TEST SETS, ETC

C.COMPUTER PROGRAMS AND THEIR ASSOCIATED PERFORMANCE AND DESIGN SPECIFICATIONS SHALL BE CLASSIFIED IAW APPLICABLE SECURITY CLASSIFICATION GUIDANCE

D.MATERIAL DEFICIENCIES AS RELATED TO THESE GUIDED MISSILE SYSTEM(S)/PROGRAM(S) (E.G., INSURV REPORTS, CASREPS, ETC.):
(1)DEFICIENCIES WHICH REVEAL PERFORMANCE OR TECHNICAL CHARACTERISTICS OF THE SPECIFIC MISSILE SYSTEM: C-OADR
(2)DEFICIENCIES WHICH REVEAL DEGRADING OR INABILITY OF THE SYSTEM/PROGRAM TO FUNCTION AS DESIGNED: C (DECLASSIFY AFTER DEFICIENCY IS CORRECTED)
(3)EVALUATIONS OR ASSESSMENTS OF MATERIAL DEFICIENCIES WHICH REVEAL DEGRADING OF THE SYSTEM/PROGRAM: C (DECLASSIFY AFTER DEFICIENCY IS CORRECTED)

E.SAFETY DEFICIENCIES ARE FOUO UNTIL CORRECTED

F.THE SECURITY CLASSIFICATION GUIDELINES APPLY TO THE MISSILES, MISSILE SIMULATORS AND MISSILE COMPONENTS, BOTH SOFTWARE AND HARDWARE. SUPPORT ITEMS SUCH AS LAUNCHING EQUIPMENT, EXTERNAL GUIDANCE SYSTEMS, WEAPONS DELIVERY RADARS, TEST SETS, ETC., ARE CLASSIFIED INDIVIDUALLY BY SEPARATE SECURITY CLASSIFICATION GUIDANCE

G.EXPLORATORY AND ADVANCED DEVELOPMENTAL DATA RESULTING IN A

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SIGNIFICANT ADVANCEMENT IN THE STATE-OF-THE-ART, WHICH IS CLASSIFIED PURSUANT TO THIS GUIDE SHALL BE DECLASSIFIED UPON DETERMINATION BY THE ORIGINATING AGENCY (OADR)

H. ANY INTELLIGENCE DATA RELATED TO THESE GUIDED MISSILE SYSTEM(S)AND PROGRAM(S) SHALL BE CLASSIFIED IN ACCORDANCE WITH SOURCE DOCUMENTS. IF INTELLIGENCE DATA IS INCORPORATED IN DOCUMENTATION RELATED TO THESE SYSTEM(S)/PROGRAM(S), THE TITLE PAGE SHALL INDICATE SPECIFICALLY WHICH PAGES CONTAIN THE DATA (E.G., PAGES 1, 5, 18, 26). THE COVER AND TITLE PAGE SHALL BE MARKED WITH THE MOST RESTRICTIVE DOWN-GRADING AND DECLASSIFICATION DATE AS REFLECTED ON THE INTELLIGENCE SOURCE DOCUMENTS

I. DATA ORIGINATED PRIOR TO 1 JANUARY 1958 PERTAINING TO GUIDED MISSILES COMING UNDER THE COGNIZANCE OF COMNAVSEASYSCOM ARE HEREBY DECLASSIFIED

J. GUIDED MISSILES, UNLESS AN ADVANCEMENT IN THE STATE-OF-THE-ART IS REVEALED, COMING UNDER THE COGNIZANCE OF THE COMNAVSEASYSCOM (FORMERLY COMNAVORDSYSCOM) NOT LISTED, THEIR ASSOCIATED COMPONENTS AND ALL DATA PERTAINING THERETO ARE EITHER UNCLASSIFIED OR HEREBY DECLASSIFIED

K. DATA (E.G., BOOKLETS, PAMPHLETS, BROCHURES, REPORTS, ETC.), EXCEPT APPROVED PUBLICITY RELEASES, RELATING TO THESE GUIDED MISSILE SYSTEM(S)/PROGRAM(S) SHALL BE MARKED ON THE COVER AND TITLE PAGE WITH THE FOLLOWING CAVEAT: "FURTHER DISSEMINATION ONLY AS DIRECTED BY COMNAVSEASYSCOM (09B2) OR HIGHER DOD AUTHORITY"

L. PROPOSED PUBLICITY RELEASES SHALL BE FORWARDED TO NAVSEA (SEA 00D) FOR APPROPRIATE CLEARANCE

M. QUANTITIES OF MISSILES: REFER TO OPNAVINST S5513.3B, ENCL (35) FOR GUIDANCE ON INVENTORY DATA, PROCUREMENT QUANTITIES, ETC.

N. INQUIRIES CONCERNING THIS SECURITY CLASSIFICATION GUIDE SHALL BE FORWARDED TO COMNAVSEASYSCOM (09B2)

10. BRIEF JUSTIFICATION: N/A

11. SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

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01.IDENTIFYING DATA
ID: 03B-17
CL: U
SU: COMBATANT SHIPS (LESS SUBMARINES)
OC: OPNAV(OP-009P3);DTIC-A
CA: OPNAV(OP-009)
OD: 75-01-10
CD: 84-08-06
RD: 86-08-06

02.THREAT/BACKGROUND:

A.THIS CLASSIFICATION GUIDE IS APPLICABLE TO ALL COMBATANT SHIPS (LESS SUBMARINES) WHICH ARE CURRENTLY IN THE ACTIVE FLEET, NAVAL RESERVE FORCE, OR THE INACTIVE RESERVE

B.SUBMARINE GUIDANCE IS CONTAINED IN OPNAVINST S5513.5A, ENCL (37) (NOTAL), AUXILIARY SHIP GUIDANCE IS CONTAINED IN OPNAVINST S5513.3B, ENCL (8) AND COMBATANT CRAFT GUIDANCE IS CONTAINED IN OPNAVINST S5513.3B, ENCL (19)(NOTAL)

C.CERTAIN INFORMATION WHICH WAS ORIGINATED 20 OR MORE YEARS AGO CONTINUES TO WARRANT SECURITY CLASSIFICATION. REFER TO THE CONTINUED PROTECTION GUIDANCE PROMULGATED BY OPNAVINST C5513.10A, ENCL (5)(NOTAL)

03.MISSION: PROVIDE SURFACE SEA CONTROL

04.FINANCIAL: DEVELOPMENT COST BREAKDOWN: FOUO (U AFTER SUBMITTED TO CONGRESS FOR CURRENT BUDGET YEAR)

05.MILESTONES:

A.DELIVERY DATE: U

B.INITIAL OPERATIONAL DEPLOYMENT DATES: C (DECLASSIFY AFTER DEPLOYMENT)

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.PERFORMANCE
(1)SPEED (MAXIMUM, SUSTAINED OR ECONOMICAL): U (C-OADR FOR NUCLEAR)
(2)ASSOCIATED WITH SPECIFIC TACTICAL SITUATIONS: C-OADR

B.ENDURANCE OR CRUISING RANGE: C-OADR

C.DESIGN AND ACTUAL SHAFT HORSEPOWER: U (C-OADR FOR NUCLEAR)

D.PROPELLER RPM - MAX AT FULL POWER: U (C-OADR FOR NUCLEAR)

E.SIGNATURES
(1)ACOUSTIC: REFER TO OPNAVINST S5513.3B, ENCL (57)
(2)MAGNETIC: REFER TO OPNAVINST C5513.7B, ENCL (7) (NOTAL)
(3)INFRARED: C-OADR
(4)PRESSURE: C-OADR

F.TECHNICAL INFORMATION DESIGN CRITERIA AND OUTPUT
(1)LENGTH, BEAM, DRAFT AND DISPLACEMENT: U
(2)VULNERABILITY - GENERAL ARRANGEMENT DRAWINGS AND BOOKLETS

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OF GENERAL PLANS NORMALLY REVEAL A SHIPS'S VULNERABILITY AND WILL GENERALLY BE: C-OADR; OTHERWISE, VULNERABILITY INFORMATION SHALL BE CLASSIFIED IAW OPNAVINST S5513.3B, ENCL (53)

(3)FUEL CAPACITY: (FOR SHIP'S OWN CONSUMPTION)

(A)TOTAL FUEL CAPACITY: C-OADR

(B)FUEL CAPACITY OF ANY INDIVIDUAL TANK: U

(C)FUEL CONSUMPTION RATES: U

(4)PROPELLER CONFIGURATION AND EXTERNAL VIEW: U

G.SHIPS ARMAMENT (NUMBER AND TYPE): U

H.RADAR CROSS SECTIONS: C-OADR

07.OPERATIONAL AND TACTICAL

A.TACTICAL CHARACTERISTICS SUCH AS TIMES FOR SHIP TURNING; ZERO TO MAXIMUM SPEED; MAXIMUM TO ZERO, ETC: C-OADR

B.ORDNANCE STOWAGE CAPACITY

(1)CONVENTIONAL GUN AMMUNITION: U

(A)OPERATIONAL LOADING (ACTUAL NUMBER AND TYPE LOADED FOR A GIVEN MISSION OR TASK ASSIGNMENT): C (DECLASSIFY AFTER MISSION OR TASK PLAN IS CHANGED)

(2)MISSILES AND TORPEDOES: U

(A)OPERATIONAL LOADING (ACTUAL NUMBER AND TYPE LOADED FOR A GIVEN MISSION OR TASK ASSIGNMENT): C (DECLASSIFY AFTER MISSION OR TASK PLAN IS CHANGED)

(3)NUCLEAR WEAPONS AND PROPULSION

(A)THE FACT THAT A SHIP HAS THE CAPABILITY TO STOW OR HANDLE NUCLEAR WEAPONS: U

(B)THE FACT THAT A SPECIFIC SHIP ACTUALLY HAS NUCLEAR WEAPONS ABOARD: C-FRD

(C)NUCLEAR WEAPONS AND NAVAL NUCLEAR PROPULSION: CLASSIFY IAW OPNAVINST S5513.9B AND CG-RN-1 (REV 1))(NOTAL)

(4)ALLOWANCE LISTS/POWDER MIX DATA FOR CONVENTIONAL ORDNANCE: C (DECL 6 YRS FROM DATE OF ORIGIN)

C.LOCATIONS/INVENTORIES/DEPLOYMENT

(1)SHIP DEPLOYMENT

(A)PRECISE CURRENT OR FUTURE OPERATIONAL DEPLOYMENT LOCATIONS OF SURFACE COMBATANT SHIPS: C (DECLASSIFY AFTER DEPLOYMENT)

(B)PLANNED FOREIGN PORT CALLS: C (DECLASSIFY WHEN VISIT IS APPROVED BY HOST GOVERNMENT)

(C)ACTUAL DATES OF ROUTINE DEPLOYMENT: U

(D)DATES OF DEPARTURE AND RETURN TO U.S. PORTS: U

(E)WHEN OPERATIONAL SITUATIONS DICTATE, FLEET OR TACTICAL COMMANDERS MAY CLASSIFY SPECIFIC SHIP MOVEMENTS/DEPLOYMENTS, DECLASSIFY UPON COMPLETION OF EVOLUTION

(2)FORCE LEVELS

(A)CURRENT AND PLANNED END CURRENT FISCAL YEAR: U

(B)CURRENT PLUS ONE FISCAL YEAR (BUDGET YEAR): C (DECL AFTER BUDGET SUBMITTED TO CONGRESS)

NOTE: FOR EXAMPLE, ON 20 JAN 79 (PRESIDENTIAL BUDGET SUBMITTED TO CONGRESS) THE PLANNED LEVELS FOR FY80 WERE DECLASSIFIED

(C)BEYOND THE CURRENT YEAR PLUS ONE AS FOLLOWS:

-1 TOTAL SHIP OPERATING FORCE COMPOSITION: S (DOWNGRADE TO CONF AFTER 6 YRS, DECL AFTER 12 YRS FROM DATE OF ORIGIN)

-2 TOTALS BY SHIP CATEGORY, E.G., CRUISERS, DESTROYERS,

FRIGATES, ETC: C (DECL AFTER 6 YRS)
-3 YEARS AN INDIVIDUAL SHIP IS TO BE IN THE FORCE: U
(3)HOMEPORTING
(A)CURRENT AND END CURRENT FISCAL YEAR: U
(B)RECOMMENDATIONS FOR CHANGES TO HOMEPORTING LOCATIONS: FOUO
(C)PLANS FOR CURRENT FICAL YEAR PLUS ONE BY SHIP CATEGORIES, E.G., DESTROYERS, FRIGATES, ETC: C (DECL 6 YRS AFTER ORIGIN)
(D)BEYOND THE CURRENT FISCAL YEAR PLUS ONE AS FOLLOWS:
-1 TOTAL SHIP OPERATING FORCES: S (DOWNGRADE TO CONF AFTER 6 YRS, DECL AFTER 12 YRS)
-2 TOTAL SHIP CATEGORIES, E.G., CRUISERS, DESTROYERS, FRIGATES, ETC: C (DECL AFTER 6 YRS)
-3 PLANS FOR AN INDIVIDUAL SHIP: U

D.MATERIAL DEFICIENCIES (REPORTED BY INSURV REPORTS, CASREPS, OR OTHER MEANS)
(1)SHIPBOARD EQUIPMENT, SUCH AS, ORDNANCE (LESS NUCLEAR), COMMUNICATIONS, RADAR, AND SONAR
(A)FACTUAL DEFICIENCY (EXCLUDING MTBF OR MTTR RATE) REVEALING DEGRADATION OR INABILITY OF SHIP TO PERFORM ITS OPERATIONAL MISSION: C(DECL AFTER 6 YEARS)
(B)FACTUAL DEFICIENCY REVEALING PERFORMANCE OR TECHNICAL CHARACTERISTICS: (CLASSIFY IAW SECURITY CLASSIFICATION GUIDANCE PUBLISHED FOR EQUIPMENT INVOLVED)
(2)NUCLEAR ORDNANCE OR NUCLEAR PROPULSION: (CLASSIFY IAW OPNAVINST S5513.9B AND CG-RN-1(REV 1))(NOTAL)
(3)BASIC SHIP STRUCTURE AND INHERENT COMPONENTS NOT SPECIFICALLY COVERED BY OTHER SECURITY CLASSIFICATION GUIDANCE
(A)FACTUAL DEFICIENCY REVEALING DEGRADATION OR INABILITY OF SHIP TO PERFORM ITS OPERATIONAL MISSION: C (DECL 6 YRS AFTER ORIGIN)
(B)FACTUAL DEFICIENCY REVEALING INFORMATION CONCERNING PERFORMANCE CHARACTERISTICS, DESIGN CRITERIA AND OUTPUT OR MOVEMENT INFORMATION CONCERNING SHIP (CLASSIFY IAW OTHER TOPICS OF THIS GUIDE)
(4)EVALUATIONS OR ASSESSMENTS OF FACTUAL MATERIAL DEFICIENCIES WHICH REVEAL DEGRADING OF THE OVERALL FLEET OPERATIONAL MISSION: S (DG/C/2 YRS AFTER ORIGIN; DECL 8 YRS AFTER ORIGIN)
(5)SAFETY DEFICIENCIES: FOUO (UNLESS REVEALING MISSION DEGRADING INFORMATION REQUIRING CLASSIFICATION

E.PHOTOGRAPHY: UNDER PEACETIME CONDITIONS, EXTERNAL VIEWING, PHOTOGRAPHY OR DRAWINGS OF TOPSIDE ANTENNAS ARE NOT CLASSIFIED WHEN NOT ACCOMPANIED WITH STATEMENTS OR DESCRIPTIONS AS TO THE FUNCTIONS OF THE ANTENNAS. THE ASSOCIATION OF ANY ANTENNA WITH THE FUNCTIONS OF ECM, ECCM, LPI OR OTHER COVERT COMMUNICATIONS SYSTEM SHALL BE CLASSIFIED AS REQUIRED BY THE SECURITY CLASSIFICATION GUIDE FOR THAT PARTICULAR SYSTEM PROMULGATED PURSUANT TO THE PROVISIONS OF OPNAVINST 5513.1C. GENERAL PURPOSE UHF, VHF, HF AND LF/MF ANTENNA SYSTEMS AND THEIR FUNCTIONS, SUCH AS, WHIPS, WIRES, ARRAYS, DIPOLES USED FOR NORMAL SHIP/SHORE, SHIP/SHIP OR SHIP/AIR COMMUNICATIONS, NOT INVOLVING LPI OR COVERT SYSTEMS, ARE NOT CLASSIFIED

08.HARDWARE: REFER TO GUIDANCE FOR PARTICULAR EQUIPMENT

09.OTHER

A.WAR DAMAGE REPORTS: C-OADR

B.STOWAGE CAPACITY FOR USE BY AIRCRAFT ABOARD SHIP

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(1)ORDNANCE (SAME AS PARA 07B)
(2)AVIATION FUEL: U
(A)OPERATIONAL LOAD (ACTUAL AMOUNT LOADED FOR A GIVEN MISSION OR TASK ASSIGNMENT): C (DECLASSIFY AFTER MISSION OR TASK IS CHANGED)
(3)OTHER, SUCH AS SPARE PARTS: U

C.INSTALLED EQUIPMENT - IN GENERAL, PERFORMANCE AND TECHNICAL CHARACTERISTICS OF INSTALLED EQUIPMENTS ARE CLASSIFIED. SPECIFIC GUIDANCE SHOULD BE CONSULTED IN EACH INSTANCE

D.RESEARCH, DEVELOPMENT, TEST AND EVALUATION
(1)CLASSIFY INFORMATION DEVELOPED IAW GUIDANCE FURNISHED WITH THE TASK ASSIGNMENT. IF NONE, THIS GUIDE APPLIES
(2)TEST SCHEDULES INVOLVING LAUNCHING MISSILES/TORPEDOES: C (DECLASSIFY AFTER TEST)
(3)SPEED (MAXIMUM, SUSTAINED OR ECONOMICAL): C (DECLASSIFY AFTER FIRST SHIP OF CLASS IS OPERATIONALLY DEPLOYED)

E.STADIMETER DATA (MEASUREMENT FROM THE RANGE LIGHT TO THE BLACK BOOT TOPPING (BT) AND TO THE STEM LIGHT): U

F.DETAILS OF DAMAGE TO SHIP HULLS AND SHIPBOARD EQUIPMENTS AS A RESULT OF NUCLEAR TESTS PRIOR TO 1960: U (IF NUCLEAR WEAPON DESIGN INFORMATION IS NOT REVEALED); AFTER 1960: C-OADR

G.EXPLORATORY AND ADVANCED DEVELOPMENT DATA RESULTING IN A SIGNIFICANT ADVANCEMENT IN THE STATE-OF-THE-ART, WHICH IS CLASSIFIED PURSUANT TO THIS GUIDE SHALL BE DECLASSIFIED UPON DETERMINATION BY THE ORIGINATING AGENCY (OADR)

10.BRIEF JUSTIFICATION: N/A

11.SECONDARY DISTRIBUTION: U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS

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01. IDENTIFYING DATA
ID: 03B-47
CL: U
SU: POINT DEFENSE, IMPROVED, SURFACE
SU: MISSILE SYSTEM (IPDSMS)
OC: NAVSEA(09B2);DTIC-C
CA: COMNAVSEA
OD: 67-12-01
CD: 84-08-06
RD: 86-08-06

02. THREAT/BACKGROUND

A. THIS GUIDE COVERS THE IMPROVED POINT DEFENSE SURFACE MISSILE SYSTEM (IPDSMS) WHICH IS COMPRISED OF THE NATO SEASPARROW SURFACE MISSILE SYSTEM (NSSMS) INTEGRATED WITH THE IMPROVED POINT DEFENSE TARGET ACQUISITION SYSTEM (IPD/TAS). THIS GUIDE ESTABLISHES SPECIFIC MANAGEMENT PROCEDURES TO PROTECT THE SECURITY OF THE SPARROW III MISSILE AIM-7E/RIM-7H WITH RESPECT TO ITS USE IN A SURFACE-TO-AIR APPLICATION

B. THESE SECURITY CLASSIFICATION GUIDELINES APPLY TO THE SPARROW III MISSILE AS USED IN THE IMPROVED POINT DEFENSE SURFACE MISSILE SYSTEM. THESE GUIDELINES, AS RELATED TO THE SPARROW III MISSILE ARE GENERALLY IN CONSONANCE WITH OPNAVINST C5513.2B, ENCL (61)(NOTAL) (NAVAIR GUIDE FOR SPARROW III). DIFFERENCES IN THE SECURITY CLASSIFICATION ASSIGNMENTS AS OUTLINED HEREIN AND IN OPNAVINST C5513.2B, ENCL (61) (NOTAL) ARE THE RESULTS OF A SURFACE-TO-AIR APPLICATION VERSUS AN AIR-TO-AIR UTILIZATION

C. THE IFF SYSTEM TO BE INTEGRATED WITH THE IPDSMS IS DEFINED AS THE AIMS MK 12 IFF SYSTEM NOT INCLUDING THE CRYPTO UNITS. THE CRYPTO UNITS ARE TO BE TREATED AS AN EXTERNAL INTERFACE TO IPDSMS

03. MISSION: NOT APPLICABLE

04. FINANCIAL

A. UNIT COST: U

B. INDIVIDUAL CONTRACT QUANTITIES: U

05. MILESTONES

A. INITIAL OPERATIONAL CAPABILITY (IOC) DATE: C (DECLASSIFY AFTER IOC)

B. DELIVERY SCHEDULES: U

06. DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A. COUNTER-COUNTERMEASURES CAPABILITIES (E.G., DEFINITIVE OR DETAILED DISCLOSURE OF CAPABILITY TO DEFEAT HOSTILE SYSTEMS SUCH AS SPECIFIC DEGREE OF EFFECTIVENESS AND DETAILED TEST PERFORMANCE AGAINST SPECIFIC JAMMERS, ETC): S-OADR

B. VULNERABILITY TO COUNTERMEASURES (E.G., DEFINITIVE OR DETAILED DISCLOSURE OF WEAKNESS TO HOSTILE DEFEAT SUCH AS

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SPECIFIC SYSTEM WEAKNESSES, PERFORMANCE ENVELOPES IN SPECIFIC ECM ENVIRONMENTS, ETC.): S-OADR

C.ECM/ECCM TEST RESULTS WHEN DETAILED ECCM CAPABILITIES OR VULNERABILITIES TO ECM ARE DISCLOSED: S-OADR

D.EFFECTIVENESS AGAINST SPECIFIC PRESENT OR FUTURE ANTI-SHIP THREATS: S-OADR

E.ACCURACY WHEN STATED AS A SYSTEM/SUBSYSTEM PARAMETER: C-OADR

F.CM/CCM TEST RESULTS IF CM/CCM OPERATION OR GENERAL DESCRIPTION ONLY ARE REVEALED: C-OADR

G.MISS DISTANCE OR CEP: C-OADR

H.ALTITUDE CAPABILITIES: C-OADR

I.LETHALITY: C-OADR

J.MANEUVERABILITY: C-OADR

K.TIME CYCLE WHEN USED WITH REFERENCE TO SYSTEM READINESS OR WHEN CLASSIFIED SYSTEM PARAMETERS OR SYSTEM SUSCEPTIBILITY TO COUNTERMEASURES ARE REVEALED: C-OADR

L.TRAJECTORY: C-OADR

M.RANGE (E.G.,SYSTEM AND/OR EQUIPMENT RANGE PERF.): C-OADR

N.RELIABILITY OF IPD/TAS: C-OADR

O.AVAILABILITY FOR IPD/TAS SYSTEMS (I, RAS, RMS, IRAS, IRMS) AND SUBSYSTEMS (RADARS, INFRARED, INFRARED SEARCH SET): C-OADR

P.RADAR ANTENNA PATTERNS: C-OADR

Q.RESOLUTION FOR THE IPD/TAS RADAR AND IR: C-OADR

R.SPECIFIC FREQ. OR OPERATIONAL SPECTRAL BANDWIDTH: C-OADR

S.NUMERICAL FREQ. OR SPECTRAL BANDWIDTH (NUMERICAL MICRON IDENTIFICATIONS): C-OADR

T.CODING AS APPLIED TO IPD/TAS WHEN RELATED TO EXTERNAL RADIATED OR RECEIVED EMISSIONS: C-OADR

U.SENSITIVITY WHEN RELATED TO PERFORMANCE AGAINST SPECIFIED TARGET CHARACTERISTICS IN A SPECIFIED ENVIRONMENT: C-OADR

V.SYSTEM CAPABILITY (E.G., ENGAGEMENT CAPACITY OR "SATURATION LEVEL" CORRESPONDING TO A SPECIFIC OPERATIONAL SITUATION): C-OADR

W.TRACK CAPACITY: C-OADR

X.FALSE ALARM RATE IN OPERATIONAL ENVIRONMENT: C-OADR

Y.PROPELLANT FORMULATION: C-OADR

Z.INFRARED SEARCH SYSTEM ELEVATION FIELD OF VIEW: C-OADR

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AA.PSEUDO CAN FREQUENCY BAND LIMITS: C-OADR

BB.ANTENNA SIDELOBE LEVELS: C-OADR

CC.TRANSMITTER MODULATING CODING FREQUENCIES AS APPLIED TO IPD/TAS: C-OADR

DD.RADAR MODULATION WAVEFORM, COMPLETE: C-OADR

EE.REACTION TIME (E.G., DETECTION TO DESIGNATION, DESIGNATION TO LAUNCH, DETECTION TO LAUNCH): C-OADR

FF.SYSTEM DETECTION SENSITIVITIES IN TERMS OF TARGET SIZES AND CHARACTERISTICS, RANGE RATE AND RANGE: C-OADR

GG.MISSILE INTERCEPT ZONES & PERFORMANCE ENVELOPES: C-OADR

HH.CM/CCM OPERATION AND GENERAL DESCRIPTION (E.G., WHEN NOT DESCRIBED IN SUFFICIENT DETAIL AS TO DISCLOSE HOW THE SYSTEM DEFEATS HOSTILE INTERFERENCE DEVICES (CAPABILITIES) OR HOW THE SYSTEM CAN BE DEFEATED BY HOSTILE INTERFERENCE DEVICES (VULNERABILITIES): C-OADR

II.SUSCEPTIBILITY TO FRIENDLY ELECTROMAGNETIC INTERFERENCE IN A TACTICAL ENVIRONMENT: C-OADR

JJ.ACCURACY WHEN CITED FOR OTHER THAN A SYSTEM/SUBSYSTEM PARAMETER: U

KK.MAXIMUM/MINIMUM VELOCITY: U

LL.THRUST: U

MM.PROPELLANT GEOMETRY: U

NN.PROPELLANT BURN TIME: U

OO.PROPELLANT TOTAL IMPULSE: U

PP.ECM/ECCM TEST RESULTS WHEN SYSTEM CAPABILITIES, VULNERABILITIES, OPERATIONAL OR GENERAL DESCRIPTION DATA ARE NOT REVEALED: U

QQ.TIME CYCLE WHEN CLASSIFIED SYSTEM PARAMETERS OR SYSTEM SUSCEPTIBILITY TO COUNTERMEASURES ARE NOT REVEALED: U

RR.RELIABILITY/AVAILABILITY FOR IPD/TAS SUBSYSTEM FOR PORTIONS OF THE IPD/TAS NOT COVERED BY SUBPARA O6N AND O: U

SS.ANTENNA BEAMWIDTH AND GAIN: U

TT.RESOLUTION OF IPD/TAS SUBSYSTEMS OTHER THAN RADAR & IR: U

UU.NUMERICAL FREQUENCY OR SPECTRAL BANDWIDTH WHEN PORTIONS OR COMPONENTS OF THE IPD/TAS RADAR SUBSYSTEM WHOSE OPERATING BANDWIDTH EXCEEDS IPD/TAS OPERATING BAND BY TWO TO ONE: U

VV.UNQUALIFIED SENSITIVITY (E.G., SUBCLUTTER VISIBILITY OF 70 DB): U

WW.GTE IFF AND CFE AS-2180 DOCUMENTATION: U

XX.NAMES OR LISTINGS OF ECM/ECCM FUNCTIONS WITHOUT DESCRIPTIVE

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DATA: U

YY.TRANSMITTER POWER OUTPUT: U

ZZ.TRANSMITTER SURFACE MODE MODULATION FREQUENCIES: U

AAA.TRANSMITTER MODULATING RANGING OR COHERENCE FREQUENCIES: U

BBB.TRANSMITTER NOISE LEVELS: U

CCC.ALL TRANSMITTER MODULATION DEVIATION EXPRESSED AS TRIANGLE F: U

DDD.ABSOLUTE VALUE OF INTERMEDIATE FREQUENCIES: U

EEE.OPERATING FREQUENCY BAND-LETTER DESIGNATION: U

FFF.IF/VIDEO BANDPASSES: U

GGG.SENSOR ROTATION RATE: U

HHH.CCM FUNCTIONAL TITLES ON DRAWINGS: U

III.LOW E SWITCHING ANGLES: U

JJJ.INSTRUMENTED RANGE AND RANGE RINGS ON THE OPERATOR PANELS: U

KKK.MEAN-TIME BETWEEN FAILURES (MTBF): U

LLL.NUMBER OF ANALOG DESIGNATION CHANNELS: U

MMM.STATEMENTS RELATING TO GENERAL MILITARY APPLICATION: U

NNN.RECEIVER NOISE FIGURE: U

07.OPERATIONAL AND TACTICAL

A.MILITARY APPLICATION (E.G., DETAILS OF SYSTEM ELEMENT UTILIZATION REVEALING TACTICAL PERFORMANCE CAPABILITY IN SPECIFIC OPERATIONAL MODES: C-OADR

B.TOTAL PROGRAM QUANTITIES: C (DECL 6 YRS AFTER ORIGIN)

C.M-DAY PLANNING TOTALS: C (DECL 6 YRS AFTER ORIGIN)

D.WORLD-WIDE ASSETS: C (DECL 6 YRS AFTER ORIGIN)

08.HARDWARE

A.IPDSMS HARDWARE,UNLESS AN ADVANCEMENT IN THE STATE-OF-THE-ART IS REVEALED, NOT LISTED AND ALL DATA PERTAINING THERETO ARE EITHER UNCLASSIFIED OR HEREBY DECLASSIFIED

B.IFF SUBSYSTEM WHEN CRYPTO UNITS ARE INSTALLED: S-OADR

C.CRYPTO UNITS: S-OADR

D.COMPLETE IPDSMS END ITEM: C-OADR

E.IPD/TAS END ITEM: C-OADR

F.IPD/TAS RADAR SYSTEM: C-OADR

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G. IPD/TAS INFRARED SEARCH SYSTEM: C-OADR

H. TRANSMITTER UNDER SHIPBOARD OPERATIONAL CONDITIONS: U

I. NATO SEASPARROW SURFACE MISSILE SYSTEM END ITEM AS AN OVERALL SYSTEM: U

J. SPARROW III MISSILE AIM-7E/RIM-7H: U

K. GUIDANCE SYSTEM: U

L. FIRE CONTROL SYSTEM: U

M. TRACK/ILLUMINATOR SYSTEM: U

N. TRANSMITTER EXCEPT WHEN UNDER SHIPBOARD OPERATIONAL CONDITIONS: U

O. CONVENTIONAL WARHEAD: U

P. LAUNCHER SYSTEM: U

Q. TELEVISION SUBSYSTEM: U

R. CONSOLES, INCLUDING FRONT PANEL LAYOUTS: U

S. IFF SUBSYSTEM END ITEM NOT INCLUDING CRYPTO UNITS - SEE NOTE 1: U

T. GFE IFF AND CFE AS-2189 ANTENNA HARDWARE: U

U. COMPUTER HARDWARE IS UNCLASSIFIED UNTIL A CLASSIFIED

PROGRAM IS INSTALLED, AT WHICH TIME THE COMPUTER HARDWARE ASSUMES THE CLASSIFICATION OF THE PROGRAM

NOTE 1: THE PERFORMANCE CHARACTERISTICS OF THE IFF SYSTEM WHEN INTEGRATED INTO THE IPDSMS SHALL BE CLASSIFIED THE SAME AS THE CHARACTERISTICS FOR THE IPDSMS

09. OTHER

A. ADDITIONAL SECURITY CLASSIFICATION GUIDANCE. OPNAVINST S5513.3B, ENCL (46) PROVIDES SECURITY CLASSIFICATION GUIDANCE FOR THE BASIC POINT DEFENSE SURFACE MISSILE SYSTEM. OPNAVINST S5513.3B, ENCL (59) PROVIDES SECURITY CLASSIFICATION GUIDANCE FOR THE NATO SEASPARROW SURFACE MISSILE SYSTEM

B. COMPUTER PROGRAMS AND THEIR ASSOCIATED PERFORMANCE AND DESIGN SPECIFICATION SHALL BE CLASSIFIED IAW APPLICABLE SECURITY CLASSIFICATION GUIDANCE

C. MATERIAL DEFICIENCIES AS RELATED TO THIS SYSTEM/PROGRAM (E.G., INSURV REPORTS, CASREPS, ETC.):
(1) DEFICIENCIES WHICH REVEAL PERFORMANCE OR TECHNICAL CHARACTERISTICS OF THE SYSTEM/PROGRAM: C-OADR
(2) DEFICIENCIES WHICH REVEAL DEGRADING OR INABILITY OF THE SYSTEM/PROGRAM TO FUNCTION AS DESIGNED: C (DECLASSIFY AFTER DEFICIENCY IS CORRECTED)
(3) EVALUATIONS OR ASSESSMENTS OF MATERIAL DEFICIENCIES WHICH REVEAL DEGRADING OF THE SYSTEM/PROGRAM: C (DECLASSIFY AFTER DEFICIENCY IS CORRECTED)

D. SAFETY DEFICIENCIES ARE FOUO UNTIL CORRECTED

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E. EXPLORATORY AND ADVANCED DEVELOPMENTAL DATA RESULTING IN A SIGNIFICANT ADVANCEMENT IN THE STATE-OF-THE-ART, GENERATED HENCEFORTH WHICH IS CLASSIFIED PURSUANT TO THIS GUIDE SHALL BE DECLASSIFIED UPON DETERMINATION BY ORIGINATING AGENCY (OADR)

F. ANY INTELLIGENCE DATA RELATED TO THIS SYSTEM/PROGRAM SHALL BE CLASSIFIED IAW SOURCE DOCUMENTS. IF INTELLIGENCE DATA ARE INCORPORATED IN DOCUMENTATION RELATED TO THIS SYSTEM/PROGRAM THE TITLE PAGE SHALL INDICATE WHICH PAGES CONTAIN THE DATA (E.G., PAGES 1, 5, 18, 26). THE COVER AND TITLE PAGE SHALL BE MARKED WITH THE MOST RESTRICTIVE DOWNGRADING AND DECLASSIFICATION DATE AS REFLECTED ON THE INTELLIGENCE SOURCE DOCUMENTS

G. DATA (E.G., BOOKLETS, PAMPHLETS, BROCHURES, REPORTS, ETC.) EXCEPT APPROVED PUBLICITY RELEASES, RELATING TO THIS SYSTEM/PROGRAM SHALL BE MARKED ON THE COVER AND TITLE PAGE WITH THE FOLLOWING CAVEAT: "FURTHER DISSEMINATION ONLY AS DIRECTED BY COMNAVSEASYSCOM (09B2) OR HIGHER DOD AUTHORITY"

H. PROPOSED PUBLICITY RELEASES SHALL BE FORWARDED TO NAVSEA (SEA 00D) FOR APPROPRIATE CLEARANCE ON A PER CASE BASIS

I. INQUIRIES CONCERNING THIS SECURITY CLASSIFICATION GUIDE SHALL BE FORWARDED TO COMNAVSEASYSCOM (09B2)

10. BRIEF JUSTIFICATION: N/A

11. SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

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01.IDENTIFYING DATA
ID: 03B-59
CL: U
SU: SPARROW, NATO SEA
OC: NAVSEA(09B2);DTIC-C
CA: COMNAVSEA
OD: 68-03-27
CD: 84-10-01
RD: 86-10-01

02.THREAT/BACKGROUND: THESE SECURITY CLASSIFICATION GUIDELINES APPLY TO THE UTILIZATION OF THE SPARROW III MISSILE IN THE NATO SEASPARROW SURFACE MISSILE SYSTEM. THESE SECURITY CLASSIFICATION GUIDELINES ARE GENERALLY IN CONSONANCE WITH OPNAVINST C5513.2B, ENCL (61)(NOTAL). DIFFERENCES IN THESE CLASSIFICATION ASSIGNMENTS AND THOSE IN OPNAVINST C5513.2B, ENCL (61)(NOTAL) ARE THE RESULT OF SURFACE-TO-SURFACE APPLICATION VERSUS AIR-TO-SURFACE UTILIZATION. THIS GUIDE PROVIDES SECURITY CLASSIFICATION GUIDANCE AND ESTABLISHES SPECIFIC MANAGEMENT PROCEDURES TO PROTECT THE SECURITY OF THE SPARROW III MISSILE AIM-7E/RIM-7H WITH RESPECT TO ITS UTILIZATION IN A SURFACE-TO-AIR APPLICATION

03.MISSION: THE NATO SEASPARROW SURFACE MISSILE SYSTEM (NSSMS) WAS DEVELOPED TO COUNTER THE AIRCRAFT AND ANTI-SHIP MISSILE THREAT OF THE MID-1970'S WITH CAPACITY TO EXPAND TO MEET THE FUTURE THREAT. THE RIM-7H SPARROW III MISSILE (MODIFIED AIM-7E) IS PRESENTLY USED WITH THE NATO SYSTEM. THE AIM-7E IS OUT OF PRODUCTION AND ONLY A LIMITED QUANTITY REMAINS IN THE INVENTORY. THE AIM-7F SPARROW III MISSILE WAS DEVELOPED TO REPLACE THE AIM-7E FOR AIR-TO-AIR APPLICATION, AND IS SCHEDULED TO REPLACE THE RIM-7H FOR POINT DEFENSE APPLICATIONS

04.FINANCIAL

A.BUDGETARY DATA: U

05.MILESTONES:

A.SCHEDULES: U

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.COUNTER-COUNTERMEASURES CAPABILITIES (DEFINITIVE OR DETAILED DISCLOSURE OF CAPABILITY TO DEFEAT ENEMY SYSTEMS (E.G., SPECIFIC DEGREE OF EFFECTIVENESS AND DETAILED TEST PERFORMANCE AGAINST SPECIFIC JAMMERS, ETC.)): S-OADR

B.VULNERABILITY TO COUNTERMEASURES (DEFINITIVE OR DETAILED DISCLOSURE OF WEAKNESS BY ENEMY SYSTEMS DEFEAT (E.G., SPECIFIC SYSTEM WEAKNESSES, PERFORMANCE ENVELOPES IN SPECIFIC ECM ENVIRONMENTS, ETC.)): S-OADR

C.EFFECTIVENESS AGAINST SPECIFIC PRESENT OR FUTURE ANTI-SHIP THREATS: S-OADR

D.ECM/ECCM TEST RESULTS: S-OADR

E.ACCURACY: C-OADR

NWMAR130385

F.MISS DISTANCE OR CEP: C-OADR

G.ALTITUDE CAPABILITIES: C-OADR

H.LETHALITY: C-OADR

I.MANEUVERABILITY: C-OADR

J.TIME CYCLE: C-OADR

K.TRAJECTORY: C-OADR

L.RANGE (E.G., SYSTEM AND EQUIPMENT RANGE PERF.): C-OADR

M.RESOLUTION: C-OADR

N.NUMERICAL FREQUENCY BANDWIDTH: C-OADR

O.SPECIFIC FREQUENCIES: C-OADR

P.SENSITIVITY: C-OADR

Q.PROPELLANT FORMULATION: C-OADR

R.PSEUDO SCAN FREQUENCY BAND LIMITS: C-OADR

S.ANTENNA SIDELOBE LEVELS: C-OADR

T.REACTION TIME-DESIGNATE TO LAUNCH SEQUENCE: C-OADR

U.SYSTEM DETECTION SENSITIVITIES IN TERMS OF TARGET SIZES, RANGE RATE AND RANGE: C-OADR

V.MISSILE INTERCEPT ZONES AND PERFORMANCE ENVELOPES: C-OADR

W.ECM AND ECCM OPERATIONAL AND GENERAL DESCRIPTION WHEN NOT DESCRIBED IN SUFFICIENT DETAIL AS TO DISCLOSE HOW THE SYSTEM DEFEATS ENEMY INTERFERENCE DEVICES (CAPABILITIES) OR HOW THE SYSTEM CAN BE DEFEATED BY ENEMY INTERFERENCE DEVICES (VULNERABILITY): C-OADR

X.RELIABILITY: U

Y.CODING: U

Z.MAXIMUM/MINIMUM VELOCITY: U

AA.THRUST: U

BB.PROPELLANT BURN TIME: U

CC.PROPELLANT TOTAL IMPULSE: U

DD.ANTENNA BEAM WIDTH AND GAIN: U

EE.NAMES OR LISTINGS OF ECM OR ECCM FUNCTIONS WITHOUT DESCRIPTIVE DATA: U

FF.TRANSMITTER POWER OUTPUT: U

GG.TRANSMITTER SURFACE MODE MODULATION FREQUENCIES: U

HH.TRANSMITTER MODULATING RANGING OR COHERENCE FREQUENCIES: U

NWMAR130386

II.TRANSMITTER NOISE LEVELS: U

JJ.ALL TRANSMITTER MODULATION DEVIATIONS EXPRESSED AS TRIANGLE F: U

KK.ABSOLUTE VALUE OF INTERMEDIATE FREQUENCIES: U

LL.RECEIVER NOISE FIGURE: U

MM.IF/VIDEO BANDPASSES: U

NN.ECCM FUNCTION TITLES ON DRAWINGS: U

OO.LOW E SWITCHING ANGLES: U

PP.MEAN-TIME BETWEEN FAILURES (MTBF): U

QQ.NUMBER OF ANALOG DESIGNATION CHANNELS: U

RR.PROPELLANT GEOMETRY: U

07.OPERATIONAL AND TACTICAL

A.MILITARY APPLICATION (E.G., DETAILS OF SYSTEM UTILIZATION REVEALING TACTICAL PERFORMANCE CAPABILITY IN SPECIFIC OPERATIONAL MODES): C-OADR

B.STATEMENTS RELATING TO GENERAL MILITARY APPLICATION: U

08.HARDWARE

A.NATO SEASPARROW SURFACE MISSILE SYSTEM HARDWARE NOT LISTED AND ALL DATA PERTAINING THERETO ARE EITHER UNCLASSIFIED OR HEREBY DECLASSIFIED

B.TRANSMITTER UNDER SHIPBOARD OPERATIONAL CONDITIONS: C-OADR

C.NATO SEASPARROW SURFACE MISSILE SYSTEM: U

D.SPARROW III MISSILE AIM-7E/RIM-7H: U

E.GUIDANCE SYSTEM: U

F.FIRE CONTROL SYSTEM: U

G.TRACK/ILLUMINATOR RADAR: U

H.TRANSMITTER EXCEPT WHEN UNDER SHIPBOARD OPERATIONAL CONDITIONS: U

I.CONVENTIONAL WARHEAD: U

J.LAUNCHER SYSTEM: U

K.TELEVISION SUBSYSTEM: U

L.INSTRUMENTED RANGE AND RANGE RINGS ON THE OPERATOR PANELS: U

M.COMPUTER HARDWARE IS UNCLASSIFIED UNTIL A CLASSIFIED PROGRAM IS INSTALLED AND THE COMPUTER LOCATED IN A SHIPBOARD ENVIRONMENT, AT WHICH TIME THE COMPUTER HARDWARE ASSUMES THE CLASSIFICATION OF THE PROGRAM

NWMAR130387

09.OTHER

A.ADDITIONAL SECURITY CLASSIFICATION GUIDANCE. OPNAVINST S5513.3B PROVIDES SECURITY CLASSIFICATION GUIDANCE FOR ALL NAVSEASYSCOM COGNIZANT GUIDED MISSILES. OPNAVINST C5513.2B, ENCL (61)(NOTAL) PROVIDES SECURITY CLASSIFICATION GUIDANCE FOR THE SPARROW III MISSILE AIM-7E/RIM-7H WITH RESPECT TO AIR-TO-AIR APPLICATION

B.COMPUTER PROGRAMS AND THEIR ASSOCIATED PERFORMANCE AND DESIGN SPECIFICATIONS SHALL BE CLASSIFIED IAW THE APPLICABLE SECURITY CLASSIFICATION GUIDANCE

C.EXPLORATORY AND ADVANCED DEVELOPMENTAL DATA RESULTING IN A SIGNIFICANT ADVANCEMENT IN THE STATE-OF-THE-ART, WHICH IS CLASSIFIED PURSUANT TO THIS GUIDE SHALL BE DECLASSIFIED UPON DETERMINATION BY THE ORIGINATING AGENCY (OADR)

D.ANY INTELLIGENCE DATA COMING UNDER THE CLASSIFICATION GUIDANCE OF THIS GUIDE SHALL BE CLASSIFIED IAW SOURCE DOCUMENTS. THE COVER SHALL HAVE THE MOST RESTRICTIVE DOWNGRADING AND DECLASSIFICATION DATA AS REFLECTED ON THE INTELLIGENCE SOURCE DOCUMENT

E.DATA (E.G., BOOKLETS, PAMPHLETS, BROCHURES, REPORTS, ETC.), EXCEPT APPROVED PUBLICITY RELEASES, RELATING TO THE NATO SEASPARROW SURFACE MISSILE SYSTEM SHALL BE MARKED ON THE COVER AND TITLE PAGE WITH THE FOLLOWING CAVEAT: "FURTHER DISSEMINATION ONLY AS DIRECTED BY COMNAVSEASYSCOM (OOD) OR HIGHER DOD AUTHORITY"

F.PROPOSED PUBLICITY RELEASES SHALL BE FORWARDED TO COMNAVSEA (SEA OOD) FOR APPROPRIATE CLEARANCE ON A PER CASE BASIS

G.MATERIAL DEFICIENCIES (E.G., INSURV REPORTS, CASREPS, ETC.)
(1)FACTUAL DEFICIENCY REVEALING PERFORMANCE OR TECHNICAL CHARACTERISTICS OF THE NATO SEASPARROW SURFACE MISSILE SYSTEM: C-OADR
(2)FACTUAL DEFICIENCY REVEALING DEGRADATION OR INABILITY OF THE NATO SEASPARROW SURFACE MISSILE SYSTEM TO FUNCTION AS DESIGNED: C (DECLASSIFY WHEN DEFICIENCY IS CORRECTED)
(3)EVALUATIONS OR ASSESSMENTS OF FACTUAL MATERIAL DEFICIENCIES WHICH REVEAL DEGRADING OF THE NATO SEASPARROW SURFACE MISSILE SYSTEM: C (DECLASSIFY WHEN DEFICIENCY IS CORRECTED)

H.PROGRAM QUANTITIES: U

I.INQUIRIES CONCERING THIS SECURITY CLASSIFICATION GUIDE SHALL BE FORWARDED TO COMNAVSEASYSCOM (09B2)

10.BRIEF JUSTIFICATION: N/A

11.SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

NWMAR130388

01.IDENTIFYING DATA
ID: 03B-74
CL: U
SU: VIBRATION DATA, SHIP
OC: NAVSEA(09B2);DTIC-C
CA: COMNAVSEA
OD: 73-12-28
CD: 84-08-06
RD: 86-08-06

02.THREAT/BACKGROUND

A.SHIP VIBRATION DATA INCLUDE ANALYTICAL AND/OR EXPERIMENTAL RESULTS WHICH DESCRIBE THE STEADY STATE OR TRANSIENT VIBRATORY RESPONSE OF THE SHIP'S HULL, LOCAL STRUCTURE, APPURTENANCES, MANNED OR UNMANNED COMPARTMENTS AND SPACES, OR PROPULSION SYSTEMS. DESCRIPTORS INCLUDE MODE SHAPE, NATURAL FREQUENCY, VIBRATORY AMPLITUDE, DAMPING CONSTANT AND OTHERS

03.MISSION: NOT AVAILABLE

04.FINANCIAL: NOT AVAILABLE

05.MILESTONES: NOT AVAILABLE

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.ALL SUBMARINE VIBRATION DATA: C-OADR

B.SURFACE SHIP VIBRATION DATA WHEN THE HULL, MACHINERY OR PROJECT IS CLASSIFIED: C-OADR

C.SURFACE SHIP VIBRATION DATA WHEN THE HULL, MACHINERY OR PROJECT IS UNCLASSIFIED: U

07.OPERATIONAL AND TACTICAL: NOT APPLICABLE

08.HARDWARE: NOT APPLICABLE

09.OTHER

A.PROPOSED PUBLICITY RELEASES SHALL BE REFERRED TO COMNAVSEASYSCOM (SEA OOD). EACH REQUEST SHALL INCLUDE JUSTIFICATION FOR RELEASE ON THE BASIS OF THE BENEFITS TO THE U.S. NAVY'S SHIP SILENCING PROGRAM. THIS REQUIREMENT APPLIES, AMONG OTHERS, TO ORAL OR VISUAL PRESENTATIONS AND ARTICLES INTENDED FOR PUBLIC DISSEMINATION (I.E., SPEECHES, ADVERTISEMENTS, MAGAZINE ARTICLES, ETC.) ALL OF WHICH COMMIT SHIP SILENCING INFORMATION TO UNCONTROLLED DISCLOSURE

B.CLASSIFIED SHIP VIBRATION DATA WHICH MEETS THE DEFINITION OF NNPI WILL BE MARKED AS FOLLOWS:
CLASSIFIED BY: DOE-DOD CLASSIFICATION GUIDE, CG-RN-1 (NOTAL)
DECLASSIFY ON OADR

C.THE FOLLOWING CAVEAT WILL BE AFFIXED TO THE COVER AND TITLE PAGE OF ALL UNCLASSIFIED DOCUMENTATION ORIGINATED UNDER THIS PROGRAM
DISTRIBUTION STATEMENT B
DISTRIBUTION LIMITED TO U.S. GOVERNMENT AGENCIES ONLY:

NWMAR130389

UNCLASSIFIED

TEST AND EVALUATION DATA
OTHER REQUESTS FOR THIS DOCUMENT MUST BE REFERRED TO
NAVSEASYSCOM (SEA 09B2)

D. INQUIRIES CONCERNING THIS SECURITY CLASSIFICATION
GUIDE SHALL BE FORWARD TO COMNAVSEASYSCOM (09B2)

10. BRIEF JUSTIFICATION: N/A

11. SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

NWMAR130390

01.IDENTIFYING DATA
ID: 038-83
CL: U
SU: MK 86 GUN FIRE CONTROL SYSTEM
OC: NAVSEA (SEA 09B2);DTIC-A
CA: COMNAVSEA
OD: 80-04-28
CD: 84-08-06
RD: 86-08-06

02.THREAT/BACKGROUND: N/A

03.MISSION: N/A

04.FINANCIAL: U

05.MILESTONES: NOT AVAILABLE

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.THE FOLLOWING INFORMATION IS SECRET-OADR
(1)COUNTER-COUNTERMEASURES CAPABILITY
(2)VULNERABILITY TO COUNTERMEASURE (THE "TOJ" LABEL OR TERM IN CONJUNCTION WITH FCS MK 86 IS UNCLASS)

B.THE FOLLOWING INFORMATION IS CONFIDENTIAL-OADR
(1)ACCURACY OF GUN ORDERS
(2)OPERATIONAL READINESS
(3)MAXIMUM RANGE OF RADAR
(4)RESOLUTION OF RADAR
(5)MAXIMUM SPEED OF TARGET
(6)SYSTEM CAPACITY - TARGETS COMPUTED FOR
(7)VULNERABILITY TO BLAST SHOCK

C.THE FOLLOWING INFORMATION IS UNCLASSIFIED
(1)RELIABILITY - PROVEN FOR COMPUTER SYSTEM
(2)SIGNATURE CHARACTERISTICS - NUMERICAL FREQUENCY BANDWIDTH
(3)SYSTEM CAPACITY - TARGETS TRACKED
(4)MILITARY APPLICATION

07.OPERATIONAL AND TACTICAL: N/A

08.HARDWARE

A.HARDWARE AND ITS EXTERNAL VIEW SHALL BE CLASSIFIED IN ACCORDANCE WITH THE FOLLOWING LIST OF COMPONENTS:
(1)FIRE CONTROL SYSTEM MK 86 MOD 3

NAME	MARK	MOD	END ITEM	EXTERNAL VIEW
CONSOLE, CONTROL OFFICER	67	3	U	U
CONSOLE, GUN CONTROL (1)	68	4	U	U
CONSOLE, GUN CONTROL (2)	68	4	U	U
SIGHTING SYSTEM, OPTICAL	1	2	U	U
POWER CENTRAL	12	3	U	U
TRANSLATOR, SIGNAL DATA	1	2	U	U
COMPUTER DIGITAL	152	2	U	U
CONSOLE, INPUT-OUTPUT(1532)	77	0	U	U
GENERATOR, MOTOR	56	0	U	U
RECEIVER, RADAR	R-1599A/SPQ-9		C*	U
REPLICA	PN 2837356		C*	C*

NWMAR130391

(INDIVIDUAL COMPONENTS ARE UNCLASSIFIED WHEN SEPARATED FROM THE COMPLETE RECEIVER UNLESS FREQUENCY DATA IS REVEALED)

CONVERTER, FREQUENCY, ELECTRONIC	CV,2592A/SPQ-9		C*	U
TRANSMITTER, RADAR	T-1113A/SPQ-9		C*	U
ANTENNA	AS-2367A/SPQ-9		U	U
RADOME	CW-1065/SPQ-9		U	U
AMPLIFIER, CONTROL	163	3	U	U
ANTENNA, RADAR	39	0	U	U
RECEIVER, RADAR	R-1557/SPG-60		C*	U
TRANSMITTER, RADAR	T-1090/SPG-60		C*	U
CONVERTER, SIGNAL DATA	70	1	U	U
CONTROL, ANTENNA	86	1	U	U
CONVERTER, SIGNAL DATA	69	1	U	U
CONTROL, POWER DISTRIBUTION	87	1	U	U
PROCESSOR, VIDEO	2	0	U	U

* ORIGINATING AGENCY DETERMINATION REQUIRED (OADR)

(2)FIRE CONTROL SYSTEM MK 86 MOD 4

NAME	MARK	MOD	END ITEM	EXTERNAL VIEW
CONSOLE, CONTROL OFFICER	67	3	U	U
CONSOLE, GUN CONTROL (1)	68	4	U	U
CONSOLE, GUN CONTROL (2)	68	4	U	U
SIGHTING SYSTEM, OPTICAL	1	2	U	U
POWER CENTRAL	12	3	U	U
TRANSLATOR, SIGNAL DATA	1	3	U	U
COMPUTER, DIGITAL	152	2	U	U
CONSOLE, INPUT-OUTPUT (1532)	77	0	U	U
GENERATOR, MOTOR (1)	56	0	U	U
RECEIVER, RADAR	R-1599A/SPQ-9		C*	U
REPLICA	PN 2837356		C*	C*

(INDIVIDUAL COMPONENTS ARE UNCLASSIFIED WHEN SEPARATED FROM THE COMPLETE RECEIVER UNLESS FREQUENCY DATA IS REVEALED)

CONVERTER, FREQUENCY ELECTRONIC	CV-2592A/SPQ-9		C*	U
TRANSMITTER, RADAR	T-1113A/SPQ-9		C*	U
ANTENNA	AS-2367A/SPQ-9		U	U
RADOME	CW-1065/SPQ-9		U	U
AMPLIFIER, CONTROL	163	4	U	U
ANTENNA, RADAR	39	0	U	U
RECEIVER, RADAR	R-1557/SPG-60		C*	U
TRANSMITTER, RADAR	T-1090/SPG-60		C*	U
CONVERTER, SIGNAL DATA	70	1	U	U
CONTROL, ANTENNA	86	1	U	U
CONVERTER, SIGNAL DATA	69	1	U	U
CONTROL, POWER DISTRIBUTION	87	1	U	U
PROCESSOR, VIDEO	2	0	U	U
CONSOLE, GUN CONTROL (3)	68	4	U	U
CONSOLE, REMOTE SWITCHING	102	0	U	U
TRANSLATOR, SIGNAL DATA	2	0	U	U
COMPUTER, DIGITAL (2)	152	2	U	U
GENERATOR, MOTOR (2)	56	0	U	U

* ORIGINATING AGENCY DETERMINATION REQUIRED (OADR)

(3)FIRE CONTROL SYSTEM MK 86 MOD 5

NAME	MARK	MOD	END ITEM	EXTERNAL VIEW
CONSOLE, CONTROL OFFICER	67	3	U	U
CONSOLE, GUN CONTROL (1)	68	4	U	U
CONSOLE, GUN CONTROL (2)	68	4	U	U
SIGHTING SYSTEM, OPTICAL	1	2	U	U
POWER CONTROL	12	3	U	U
TRANSLATOR, SIGNAL DATA	1	2	U	U

COMPUTER, DIGITAL	AN/UYK-7	U	U
RECEIVER, RADAR	R-1599A/SPQ-9	C*	U
REPLICA	PN-2837256	C*	C*

(INDIVIDUAL COMPONENTS ARE UNCLASSIFIED WHEN SEPARATED FROM THE COMPLETE RECEIVER UNLESS FREQUENCY DATA IS REVEALED)

CONVERTER, FREQUENCY ELECTRONIC	CV-2592A/SPQ-9	C*	U
TRANSMITTER, RADAR	T-1113A/SPQ-9	C*	U
ANTENNA	AS-2367A/SPQ-9	U	U
RADOME	CW-1065/SPQ-9	U	U
AMPLIFIER, CONTROL	163 3	U	U
ANTENNA, RADAR	39 0	U	U
RECEIVER, RADAR	R-1557/SPG-60	C*	U
TRANSMITTER, RADAR	T-1090/SPG-60	C*	U
CONVERTER, SIGNAL DATA	70 2	U	U
CONTROL, ANTENNA	86 1	U	U
CONVERTER, POWER DISTRIBUTION	87 1	U	U
PROCESSOR, VIDEO	2 0	U	U
PANEL, CONTROL (CWI)	327 0	U	U
TRANSMITTER, RADAR (CWI)	T-1085/SPG-51D	C*	U
CONTROL - POWER SUPPLY	C-7714/SPG-51D	U	U
MONITOR, NOISE	32 0	U	U

* ORIGINATING AGENCY DETERMINATION REQUIRED (OADR)

(4)FIRE CONTROL SYSTEM MK 86 MOD 8

NAME	MARK	MOD	END ITEM	EXTERNAL VIEW
CONSOLE, CONTROL OFFICER	67	0	U	U
CONSOLE, WEAPONS CONTROL (1)	113	0	U	U
CONSOLE, WEAPONS CONTROL (2)	113	0	U	U
POWER CENTRAL	12	3	U	U
TRANSLATOR, SIGNAL DATA	1	4	U	U

COMPUTER, DIGITAL	AN-UYK-7	U	U
CONSOLE, INPUT-OUTPUT	OJ-172(V)/UYK	U	U
RECEIVER, RADAR	R-1599A/SPQ-9	C*	U
REPLICA	PN 2837356	C*	C*

(INDIVIDUAL COMPONENTS ARE UNCLASSIFIED WHEN SEPARATED FROM THE COMPLETE RECEIVER UNLESS FREQUENCY DATA IS REVEALED)

CONVERTER, FREQUENCY ELECTRONIC	CV-2592A/SPQ-9	C*	U
TRANSMITTER, RADAR	T-1113A/SPQ-9	C*	U
ANTENNA	AS-2367A/SPQ-9	U	U
RADOME	CW-1065/SPQ-9	U	U
AMPLIFIER, CONTROL	L63 5	U	U
ANTENNA, RADAR	39 0	U	U
RECEIVER, RADAR	R-1557/SPG-60	C*	U
TRANSMITTER, RADAR	T-1090/SPG-60	C*	U
CONVERTER, SIGNAL DATA	70 3	U	U
CONTROL, ANTENNA	86 1	U	U
CONVERTER, SIGNAL DATA	69 1	U	U
CONTROL, POWER DISTRIBUTION	87 1	U	U
PROCESSOR, VIDEO	2 0	U	U
TRANSMITTER, RADAR(CWI)	T-1058/SPG-51D	C*	U
CONTROL, POWER SUPPLY	LIPS(O)/A8695	U	U

* ORIGINATING AGENCY DETERMINATION REQUIRED (OADR)

(5)FIRE CONTROL SYSTEM MK 86 MOD 9

NAME	MARK	MOD	END ITEM	EXTERNAL VIEW
CONSOLE, CONTROL OFFICER	67	4	U	U
CONSOLE, WEAPONS CONTROL (1)	113	0	U	U
CONSOLE, WEAPONS CONTROL (2)	113	0	U	U
SIGHTING SYSTEM, OPTICAL	1	2	U	U
POWER CENTRAL	12	4	U	U

TRANSLATOR, SIGNAL DATA	1	4	U	U
COMPUTER, DIGITAL (1)	AN/UYK-7		U	U
CONSOLE, INPUT-OUTPUT	OA-7984(V)UYK		U	U
RECEIVER, RADAR	R-1599A/SPQ-9		C*	U
REPLICA	PN 2837356		C*	C*

(INDIVIDUAL COMPONENTS ARE UNCLASSIFIED WHEN SEPARATED FROM THE COMPLETE RECEIVER UNLESS FREQUENCY DATA IS REVEALED)

CONVERTER, FREQUENCY, ELECTRONIC	CV-2592A/SPQ-9		C*	U
ANTENNA	AS-2367A/SPQ-9		U	U
RADOME	CW-1065/SPQ-9		U	U
AMPLIFIER	163	6	U	U
CONVERTER, SIGNAL DATA	70	4	U	U
PROCESSOR, VIDEO	2	0	U	U
RECORDER, DIGITAL MAGNETIC TAPE	RD-358(V)4/UYK		U	U

* ORIGINATING AGENCY DETERMINATION REQUIRED (OADR)

(6)FIRE CONTROL SYSTEM MK 86 MOD 10

NAME	MARK	MOD	END ITEM	EXTERNAL VIEW
CONSOLE, CONTROL OFFICER	67	5	U	U
CONSOLE, WEAPONS CONTROL (1)	113	0	U	U
CONSOLE, WEAPONS CONTROL (2)	113	0	U	U
SIGHTING SYSTEM, OPTICAL	1	2	U	U
POWER CENTRAL	12	3	U	U
TRANSLATOR, SIGNAL DATA	1	4	U	U
COMPUTER, DIGITAL	AN/UYK-7		U	U
CONSOLE, INPUT-OUTPUT(1532)	77	2	U	U
RECEIVER, RADAR	R-1599A/SPQ-9		C*	U
REPLICA	PN 2837356		C*	C*

(INDIVIDUAL COMPONENTS ARE UNCLASSIFIED WHEN SEPARATED FROM THE COMPLETE RECEIVER UNLESS,FREQUENCY DATA IS REVEALED)

CONVERTER, FREQUENCY, ELECTRONIC	CV-2592A/SPQ-9		C*	U
TRANSMITTER, RADAR	T-1113A/SPQ-9		C*	U
ANTENNA	AS-2367A/SPQ-9		U	U
RADOME	CW-1065/SPQ-9		U	U
AMPLIFIER, CONTROL	163	3	U	U
ANTENNA, RADAR	39	0	U	U
RECEIVER, RADAR	R-1557/SPG-60		C*	U
TRANSMITTER; RADAR	T-1090/SPG-60		C*	U
CONVERTER, SIGNAL DATA	70	2	U	U
CONTROL, ANTENNA	86	1	U	U
CONVERTER, SIGNAL DATA	69	1	U	U
CONTROL, POWER DISTRIBUTION	87	1	U	U
PROCESSOR, VIDEO	2	0	U	U
RECORDER, DIGITAL MAGNETIC TAPE	RD-358(V)4/UYK		U	U

* ORIGINATING AGENCY DETERMINATION REQUIRED (OADR)

09.OTHER

A.DOWNGRADING/DECLASSIFICATION
(1)DOCUMENTS CONTAINING INFORMATION REQUIRING CLASSIFICATION BY THIS GUIDE SHALL BE MARKED:
CLASSIFIED BY OPNAVINST S5513.3B, ENCL (83)
DECLASSIFY ON OADR

10.BRIEF JUSTIFICATION: N/A

11.SECONDARY DISTRIBUTION: U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS

01.IDENTIFYING DATA
ID: 05A-31
CL: U
SU: SECURITY ALARM SYSTEM, CIRCUIT FZ AND 4FZ
OC: NAVSEA(9941);DTIC-C
CA: COMNAVSEA
OD: 73-05-02
CD: 82-01-29
RD: 84-01-29

02.THREAT/BACKGROUND: THIS GUIDE IS APPLICABLE TO THE CIRCUIT FZ AND 4FZ SECURITY ALARM SYSTEM AND ASSOCIATED COMPONENTS DURING MANUFACTURE, STOWAGE, SHIPMENT, OPERATIONS AND DISPOSAL

03.MISSION: NOT AVAILABLE

04.FINANCIAL: NOT AVAILABLE

05.MILESTONES: NOT AVAILABLE

06.DESIGN PERFORMANCE AND FUNCTIONAL CHARACTERISTICS

A.TECHNICAL MANUAL WHICH BEARS A SECRET CLASSIFICATION. THE TECHNICAL MANUAL FROM SHIPS TO BE SCRAPPED OR TO BE SOLD TO A FOREIGN COUNTRY SHALL BE DESTROYED IAW OPNAVINST 5510.1F FOR SHIPS TO BE INACTIVATED, STOW THE MANUAL ASHORE IAW OPNAVINST 5510.1F. MANUAL MUST BE SUBMITTED TO THE COMMANDER, NAVAL SHIP ENGINEERING CENTER, WASHINGTON, DC., ATTN: SEC-6178B02 FOR APPROVAL PRIOR TO PUBLICATION: S-OADR

B.ANY DRAWING WHICH REVEALS DESIGN PERFORMANCE OR INSTALLATION DETAILS OR SIGNIFICANT PARTS THEREOF, IN SUCH A MANNER AS TO SUGGEST MEANS FOR CIRCUMVENTION OF A SPECIFICALLY IDENTIFIED SHIP SYSTEM. THIS INCLUDES SHIP'S WIRING DRAWINGS SHOWING POINT-TO-POINT CONNECTIONS. FOR SHIPS TO BE SCRAPPED OR TO BE SOLD TO A FOREIGN COUNTRY DESTROY THE DRAWINGS IAW OPNAVINST 5510.1F. FOR SHIPS TO BE INACTIVATED STOW THE DRAWINGS ASHORE IAW OPNAVINST 5510.1F.: S-OADR

C.TECHNICAL MANUAL WHICH BEARS A CONFIDENTIAL CLASSIFICATION, COMMENTS IN PARA 06A. REGARDING MANUALS FOR SHIPS TO BE SCRAPPED OR SOLD OR INACTIVATED APPLY. MANUAL HAS TO BE ACCEPTABLE TO COMMANDER, NAVAL SHIP ENGINEERING CENTER, WASHINGTON, DC., ATTN: SEC-6178B02: C-OADR

D.ELEMENTARY OR ISOMETRIC WIRING DIAGRAMS AND EQUIPMENT DRAWINGS WHICH DESCRIBE A TYPICAL SYSTEM OR EQUIPMENT BUT DO NOT IDENTIFY A SPECIFIC INSTALLATION BY CLASS OF SHIP OR HULL NUMBER SUCH AS NAVY DRAWINGS 401-2274000, 401-2274001, AND 401-2274002, SHALL BE CLASSIFIED CONFIDENTIAL. COMMENTS IN PARA 06B. REGARDING DRAWINGS FROM SHIPS TO BE SCRAPPED OR SOLD OR INACTIVATED APPLY: C-OADR

E.COMMUNICATIONS SUGGESTING WAYS OR MEANS TO CIRCUMVENT/DEFEAT THE SECURITY ALARM SYSTEM: C-OADR

F.DRAWINGS DEVELOPED FOR A SPECIFIC SHIP OR CLASS OF SHIPS THAT SHOW THE BASIC WIRING, CABLE OR CONDUIT RUNS PROVIDED THE END USE AND TERMINAL EQUIPMENT ARE NOT SHOWN: U

G.DOOR SWITCH DRAWING 401-1973965: U

NWMAR130395

UNCLASSIFIED

07.OPERATIONAL AND TACTICAL: NOT AVAILABLE

08.HARDWARE

A.KEYS FOR CAMLOCKS TO THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX ONCE THE ASSOCIATED CAMLOCK IS DESIGNED FOR USE IN A PARTICULAR SWITCHBOARD OR SPECIAL ALARM CONNECTION BOX AT THE SWITCHBOARD OR SPECIAL ALARM CONNECTION BOX MANUFACTURER'S PLANT: S-OADR

B.THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX FROM THE TIME SHIP'S WIRING CONNECTIONS AND PRESSURE HOSE CONNECTIONS ARE FIRST BEING MADE. THIS CLASSIFICATION DOES NOT APPLY TO VIEWING THE SWITCHBOARD UNLESS INTERNAL WIRING OR SHIP'S WIRING CONNECTIONS ARE EXPOSED TO VIEW: S-OADR

C.THE KEYS FOR CAMLOCKS TO THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX UPON RECEIPT OF KEYS BY THE SHIP-BUILDER, SHIP, SUPSHIP, MECHANICSBURG, PA OR OTHER ACTIVITY: S-OADR

D.THE KEYS FOR CAMLOCKS TO THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX ON BOARD AN INACTIVATED SHIP. STOW KEYS ASHORE IAW OPNAVINST 5510.1F: S-OADR

E.ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX ON SHIPS TO BE TRANSFERRED TO THE NAVAL RESERVE. THIS CLASSIFICATION DOES NOT APPLY TO VIEWING THE EQUIPMENT UNLESS INTERNAL WIRING OR SHIP'S WIRING CONNECTIONS ARE EXPOSED TO VIEW: S-OADR

F.REPLACEMENT KEYS AND THEIR ASSOCIATED CAMLOCKS FOR THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX ONCE SELECTED TO FILL A PARTICULAR ORDER AT THE PLANT OR ACTIVITY DIRECTLY FILLING THE ORDER FROM THE NAVY OR SHIPBUILDER OR FROM AN INDUSTRIAL ACTIVITY OTHER THAN THE MANUFACTURER OF THE ALARM SWITCHBOARD OR SPECIAL ALARM CONNECTION BOX. THE CAMLOCKS REMAIN SECRET UNTIL INSTALLED IN THE SWITCHBOARD OR SPECIAL ALARM CONNECTION BOX, AT WHICH TIME THEY RETAIN THE SECRET CLASSIFICATION ONLY IN THE SENSE THAT THE CAMLOCKS SHALL BE UNLOCKED AND LOCKED ONLY BY SOMEONE WITH A SECRET SECURITY CLEARANCE: S-OADR

G.AUDIBLE AND VISUAL REMOTE SIGNAL UNITS AND SENTRY ALARM SWITCH, BOTH TO NAVY DRAWING 401-2274002, AND DOOR SWITCH TO NAVY DRAWING 401-1973965. THIS CLASSIFICATION TAKES EFFECT WHEN EQUIPMENT IS FIRST CONNECTED INTO THE SECURITY ALARM SYSTEM AND IS SAFETY-WIRED AND SEALED. THIS CLASSIFICATION THEN APPLIES AS TO THE EQUIPMENT THEREAFTER BEING OPENED AND WORKED ON WHILE A PART OF THE SECURITY ALARM SYSTEM: S-OADR

H.TERMINAL BOXES WHEN PARA 09H. APPLIES. A SECRET SECURITY CLEARANCE APPLIES FOR ENTERING THE TERMINAL BOX: S-OADR

I.PADLOCKS AND THEIR KEYS UPON BEING DESIGNATED FOR USE ON A SPECIFIC SHIP. WHEN THE PADLOCK IS INSTALLED THE KEYS SHALL REMAIN SECRET. THE PADLOCK BECOMES UNCLASSIFIED BUT SHALL BE UNLOCKED AND LOCKED ONLY BY AN INDIVIDUAL WITH A SECRET SECURITY CLEARANCE. FOR SHIPS TO BE INACTIVATED, PADLOCKS ARE TO REMAIN LOCKED ON THE TERMINAL BOX AND KEYS ARE TO IS TO BE STOWED ASHORE IAW OPNAVINST 5510.1F: S-OADR

J.KEYS FOR CAMLOCKS TO THE ALARM SWITCHBOARD AND SPECIAL

UNCLASSIFIED

NWMAR130396

ALARM CONNECTION BOX WHICH ARE BEING REMOVED FROM SHIPS TO BE SCRAPPED OR SOLD TO A FOREIGN COUNTRY SHALL BE DESTROYED IAW OPNAVINST 5510.1F: S-OADR

K. THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX UPON RECEIPT BY SHIPBUILDER, SHIPS, SUPSHIPS OR SPEC, MECHANICSBURG, PA OR OTHER ACTIVITY AND AFTER BEING UNPACKED AND AFTER BEING OPENED BY SOMEONE WITH SECRET SECURITY CLEARANCE TO HANDLE THE KEYS SHALL BE TREATED AS CONFIDENTIAL UNTIL SHIP'S WIRING CONNECTIONS OR PRESSURE HOSE CONNECTIONS ARE MADE, AT WHICH TIME THE CLASSIFICATION SHALL BECOME SECRET. THIS CONFIDENTIAL CLASSIFICATION DOES NOT APPLY TO VIEWING THE SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX UNLESS INTERNAL WIRING IS EXPOSED TO VIEW: C-OADR

L. ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX DURING

L. ALARM SWTICHBOARD AND SPECIAL ALARM CONNECTION BOX DURING FABRICATION AT THE MANUFACTURER'S PLANT AND FOR SHIPMENT BY THE MANUFACTURER. THE SWITCHBOARD SHALL INCLUDE ITS SPECIFIC CAMLOCKS AND THE CAMLOCKS SHALL LOCK THE SWITCHBOARD COVER FOR SHIPMENT. KEYS FOR CAMLOCKS SHALL BE SHIPPED SEPARATELY; SEE PARA 08A. THE SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX SHALL NOT CONTAIN CLASSIFIED PRINTED MATTER: U

M. KEYS AND CAMLOCKS DURING THEIR MANUFACTURE AND SHIPMENT TO A MANUFACTURER OF THE ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX: U

N. ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX SENT TO A SHIPBUILDER, SHIP, SUPSHIP OR SPCC, MECHANICSBURG, PA OR OTHER ACTIVITY IS UNCLASSIFIED UNTIL THE EQUIPMENT IS UNPACKED FROM IT'S SHIPPING CONTAINER. THE SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX, AFTER BEING UNPACKED, MAY BE OPENED AND LOCKED ONLY BY SOMEONE WITH SECRET SECURITY CLEARANCE TO HANDLE THE KEYS: U

O. USED ALARM SWITCHBOARDS AND SPECIAL ALARM CONNECTION BOXES TURNED INTO STOCKED TO SPCC, MECHANICSBURG, PA: U

P. AUDIBLE AND VISUAL REMOTE SIGNAL UNITS AND SENTRY ALARM SWITCH, BOTH TO NAVY DRAWING 401-2274002, AND DOOR SWITCH TO NAVY DRAWING 401-1973965 DURING THEIR MANUFACTURE, SHIPPING, BEING IN STOCK, WHILE ON INACTIVATED SHIPS AND DURING NEW INSTALLATION UNTIL FIRST CONNECTED INTO THE SECURITY ALARM SYSTEM AND SAFETY-WIRED AND SEALED. ALL OF THESE EQUIPMENTS ARE TO BE REMOVED FROM SHIPS TO BE SCRAPPED OR TO BE SOLD TO A FOREIGN COUNTRY AND ARE TO BE TURNED INTO THE NEAREST NAVY STOCK ACTIVITY: U

Q. SAFETY-WIRE LEAD SEALING TOOL DESIGNATED ON NAVY DRAWING 401-2274000. THIS TOOL IS TO BE REMOVED FROM SHIPS TO BE SCRAPPED OR TO BE SOLD TO A FOREIGN COUNTRY AND IS TO BE TURNED INTO THE NEAREST NAVY STOCK ACTIVITY. FOR SHIPS TO BE INACTIVATED, THIS TOOL IS TO BE STORED ASHORE FOR REUSE. FOR SHIPS TRANSFERRED TO THE NAVAL RESERVE, THE TOOL STAYS WITH THE SHIP: U

R. REGULAR TERMINAL BOXES - UNCLASSIFIED UNTIL SECRET CLASSIFICATION OF PARA 08.I. APPLIES FOR NEW CONSTRUCTION, CONVERSION, ACTIVE OR NAVAL RESERVE SHIPS UNCLASSIFIED ON SHIPS TO BE SCRAPPED OR TO BE INACTIVATED OR TO BE SOLD TO A FOREIGN COUNTRY: U

NWMAR130397

UNCLASSIFIED

S.PADLOCKS AND KEYS - UNCLASSIFIED UNTIL FIRST DESIGNATED FOR A SECURITY ALARM SYSTEM ON A SHIP. UNCLASSIFIED ON SHIPS BEING SCRAPPED OR SOLD TO A FOREIGN COUNTRY. FOR SHIPS INACTIVATED. THE PADLOCK IS TO REMAIN LOCKED ON THE TERMINAL BOX AND THE KEYS ARE TO BE STOWED ASHORE: SEE SUBPARAGRAPH OBJ: U

09.OTHER

A.SPECIAL SECURITY
(1)ALL COMPONENTS AS RELATED TO THE CIRCUIT FZ AND 4FZ SECURITY ALARM SYSTEM SHALL BE REMOVED FROM ANY SHIPS DELIVERED TO A FOREIGN COUNTRY
(2)KEYS TO CAMLOCKS FOR SECURITY ALARM SWITCHBOARDS ON DEACTIVATED SHIPS SHALL BE STOWED AND ACCOUNTED FOR AS SECRET
(3)THE SHIPPING PACKAGE FOR THE SAFETY - WIRE LEAD SEALING TOOL SHALL BE MARKED WITH THE FOLLOWING CAVEAT: "FOR SECURITY ALARM USE ONLY - TO BE OPENED BY THE COMMANDING OFFICER OR THEIR DULY DESIGNATED REPRESENTATIVE"

B.GENERAL SECURITY CLASSIFICATION GUIDELINES
(1)THE BELOW LISTED MATERIAL DEFICIENCIES AS RELATED TO THIS SYSTEM (E.G., INSURV REPORTS, CASREPTS, ETC.): C (DECLASSIFY WHEN DEFICIENCY IS CORRECTED) (DEFICIENCIES WHICH REVEAL DEGRADING OR INABILITY OF THE SYSTEM TO FUNCTION AS DESIGNED)
(2)SAFETY DEFICIENCIES: FOUO (CANCELLED WHEN DEFICIENCY IS CORRECTED)

C.EXPLORATORY AND ADVANCED DEVELOPMENTAL DATA RESULTING IN A SIGNIFICANT ADVANCEMENT IN THE "STATE-OF-THE-ART", GENERATED HENCEFORTH WHICH COMES UNDER THE SECURITY CLASSIFICATION GUIDANCE OF THIS GUIDE, SHALL BE DECLASSIFIED ONLY UPON DETERMINATION OF THE ORIGINATING AGENCY. CITE THIS GUIDE AS THE SECURITY CLASSIFICATION AUTHORITY

D.ANY INTELLIGENCE DATA RELATED TO THIS SYSTEM SHALL NORMALLY BE CLASSIFIED IAW SOURCE DOCUMENTS OR THIS GUIDE, WHICHEVER IS APPLICABLE. IF INTELLIGENCE DATA ARE INCORPORATED IN DOCUMENTATION RELATED TO THIS SYSTEM, THE TITLE PAGE SHALL INDICATE SPECIFICALLY WHICH PAGES CONTAIN THE DATA (E.G., PAGES 1, 5, 18, 26) AS WELL AS CONTAIN THE EXEMPTION CATEGORY. THE COVER AND TITLE PAGE SHALL BE MARKED WITH THE MOST RESTRICTIVE DOWNGRADING AND DECLASSIFICATION DATE AS REFLECTED ON THE INTELLIGENCE SOURCE DOCUMENTS

E.SHIPPING INSTRUCTIONS. HARDWARE, EXCEPT KEYS AND CAMLOCKS, IN ALL CASES SHALL BE SHIPPED AS UNCLASSIFIED. KEYS AND CAMLOCKS MAY BE SHIPPED UNCLASSIFIED BY THE MANUFACTURER OF SAME TO THE MANUFACTURER OF THE SECURITY ALARM SWITCHBOARD AND SPECIAL ALARM CONNECTION BOX. IN ALL OTHER CASES, THE KEYS AND CAMLOCKS SHALL BE SHIPPED AS SECRET

F.PROPOSED PUBLICITY RELEASES SHALL BE FORWARED TO COMNAVSEA (SEA OOD) FOR APPROPRIATE CLEARANCE ON A PER CASE BASIS

G.SECRET SECURITY CLEARANCE SHALL BE REQUIRED FOR MAKING SHIP'S WIRING OR PRESSURE HOSE CONNECTIONS INSIDE EQUIPMENT FURNISHED WITH LOCKS OR TO BE PADLOCKED AND FOR ANY ENTRY TO THAT EQUIPMENT WHEN TESTING, OPERATION, CHANGES OR MAINTENANCE IS BEING ACCOMPLISHED: S-OADR

UNCLASSIFIED

NWMAR130398

H.SECRET SECURITY CLEARANCE SHALL BE REQUIRED TO WORK ON CONDUCTORS/LEADS WITHIN ANY SHIP'S CABLING FOR THE SYSTEM AFTER THE SYSTEM IS INSTALLED: S-OADR

10.BRIEF JUSTIFICATION: N/A

11.SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

NWMAR130399

(1)RECEIVING BANDWIDTH OF SYSTEMS: C-OADR
(2)RECEIVING BANDWIDTH OF STAGES: C-OADR

D.CIRCUITRY. CLASSIFY AS TO INFORMATION AVAILABLE FROM CIRCUITRY DETAILS

E.COUNTERMEASURES AND COUNTER COUNTERMEASURES
(1)EFFECTIVENESS OF U.S. NAVY ACOUSTIC WARFARE DEVICES WHEN COUPLED WITH DESCRIPTION OF TACTICS UTILIZED: S-OADR
(2)SUSCEPTIBILITY OF SONARS AND ACOUSTIC WARFARE DEVICES TO COUNTERMEASURES/COUNTER-COUNTERMEASURES/DETECTION DECOYS/ MOTIONAL INTERFERENCE: C-OADR
(3)FALSE ALARM RATE: OADR
(4)VULNERABILITY OF TRANSDUCERS, HYDROPHONES AND ELECTRONICS TO SHOCK/WATER EXPLOSION: C-OADR
(5)MODULATION TECHNIQUES: C-OADR
(6)ANTI-JAMMING CIRCUITRY & CAPABILITY: C-OADR

F.DEPTH
(1)EFFECT OF TARGET AND SOURCE DEPTH ON SYSTEM PERFORMANCE: C-OADR
(2)OPERATING DEPTHS OF SUBMARINES IN EXCESS OF 400 FEET: C-OADR

G.DISCRETE FREQUENCY ANALYSIS (SEE NARROWBAND ANALYSIS): C-OADR

H.FIGURE OF MERIT: C-OADR

I.FREQUENCY
(1)FREQUENCY
(A)SUBMARINE SYSTEM: C-OADR
(B)SURFACE SHIP SYSTEMS
-1 SYSTEMS IN ADVANCED OR ENGINEERING DEVELOPMENT: C (DECLASSIFY UPON IOC)
-2 OPERATIONAL SYSTEMS: U
(2)PASSIVE: C-OADR
(3)FREQUENCY RESPONSE: C-OADR DATE OR ORIGIN)
(4)FREQUENCY MODULATION: C-OADR
(5)FREQUENCY OF ACOUSTIC COMMUNICATION SYSTEM: C-OADR (20 YRS FROM DATE OF ORIGIN)

J.IFF
(1)EXISTENCY OF CAPABILITY: C-OADR
(2)IDENTIFICATION PROCEDURES AND CODE UTILIZED: C-OADR

K.INFORMATION RATE OF SYSTEM: C-OADR

L.LOCALIZATION. PASSIVE LOCALIZATION TIME: C-OADR

M.MODES AND MODE COMBINATIONS
(1)EXISTENCE OF SIMULTANEOUS ACTIVE/PASSIVE MODE IN A SPECIFIC SONAR SYSTEM. C-OADR (DECL 6 YRS AFTER IOC)
(2)EXISTENCE OF PASSIVE MODE IN UNIDENTIFIED SONAR: U

N.NARROWBAND ANALYSIS. THE INCLUSION OF SENSORS UTILIZING PASSIVE NARROWBAND ANALYSIS ABOARD U.S. NAVY SHIPS REQUIRES SECURITY CLASSIFICATION BECAUSE OF THE EXTENT TO WHICH THESE TECHNIQUES NORMALLY UTILIZE STATE-OF-THE-ART TECHNOLOGY AND MAY EVEN UTILIZE COMMERCIAL EQUIPMENT WHICH IS UNCLASSIFIED IN OTHER APPLICATIONS. THE UTILIZATION ABOARD

NWMAR130400

U.S. NAVY SHIPS OF THIS TECHNOLOGY AND THESE EQUIPMENTS SHALL BE CLASSIFIED. THE FOLLOWING SECURITY CLASSIFICATION GUIDANCE AND DOWNGRADING AND DECLASSIFICATION MARKINGS APPLY:
(1)EXISTENCE OF CAPABILITY IN ANY SYSTEM OR SHIP TYPE: C-OADR
(2)SPECIFIC TECHNICAL INFORMATION CONCERNING NARROWBAND ANALYSES CAPABILITIES AND TECHNIQUES: C-OADR
(EXCEPT DETAILS OF PHASE PROCESSING DONE IN A CLASSICAL RESEARCH SENSE WHICH DOES NOT DEVELOP A NEW NARROWBAND PROCESSING TECHNIQUE NOR ADDRESS APPLICATIONS OR PERFORMANCE OF SONAR SYSTEMS, ARE UNCLASSIFIED)
(3)DETAILS OF OPERATIONAL USE: S-OADR
(4)DETAILS OF MISSIONS OR TACTICAL USE OF PASSIVE NARROW-BAND EQUIPMENT ON U.S. NAVY SHIPS AND TARGET SIGNATURES INCLUDING TONAL WIDTHS AND STABILITY: S-OADR
(5)INFORMATION NOT INCLUDED IN O6N(4) ABOVE WHICH DISCLOSES A PASSIVE NARROWBAND CAPABILITY OF ONE OR MORE U.S. NAVY SHIPS, AND ALL TECHNICAL INFORMATION REGARDING THIS CAPABILITY: C-OADR
(6)PROCUREMENTS OF ASW AND SUBMARINE PASSIVE NARROWBAND ANALYSIS MATERIAL WILL BE ACCOMPLISHED ON UNCLASSIFIED CONTRACTS, WHERE THE CLASSIFIED MILITARY APPLICATION OF SUCH EQUIPMENTS CAN BE PROTECTED. IN INSTANCES WHERE THE CLASSIFIED APPLICATION IS READILY APPARENT OR DISCERNIBLE THE CONTRACT DOCUMENT WILL BE CLASSIFIED CONFIDENTIAL AND MARKED AS REQUIRED

O.PING STEALING. CAPABILITY TO PERFORM PING STEALING AND RESISTANCE TO PING STEALING: C-OADR

P.PULSE LENGTH AND MINIMUM PULSE LENGTH: C-OADR
(DECL 6 YRS AFTER IOC)

Q.RANGE
(1)PREDICTED AND DEMONSTRATED DETECTION RANGES: C-OADR
(2)TARGET CLASSIFICATION CAPABILITY AT VARIOUS RANGES: C-OADR
(3)TARGET TRACK CAPABILITY AT VARIOUS RANGES: C-OADR

R.REFLECTED TARGET STRENGTH: C-OADR

S.RELIABILITY
(1)REPORTS OF CASUALTIES OR NONAVAILABILITY OF SYSTEM: C (DECLASSIFY SIX YRS FROM DATE OF ORIGIN)
(2)ACCUMULATION OF REPORTS OF CASUALTIES OR SYSTEM NONAVAILABILITY SUFFICIENT TO ESTABLISH A TREND WHICH REVEALS AN OPERATIONAL WEAKNESS: C-OADR
(DECLASSIFY WHEN WEAKNESS IS CORRECTED)
(3)SYSTEM RELIABILITY PREDICTIONS: C-OADR
(DECL 6 YRS AFTER IOC)

T.RESOLUTION. RESOLUTION OF BEAM PATTERNS AND TARGET RESOLUTION CAPABILITY: C-OADR

U.SENSITIVITY. RECEIVING SENSITIVITY: C-OADR

V.SIGNAL DISPLAY CAPACITY: C-OADR

W.SIGNAL LEVEL. MINIMUM DETECTABLE SIGNAL LEVEL: C-OADR

X.SIGNAL PROCESSING
(1)SIGNAL PROCESSING TECHNIQUES AND CAPABILITIES: C-OADR
(2)WHEN UTILIZING NARROWBAND ANALYSIS (ALSO SEE O6N)

NWMAR130401

C-OADR

Y.SOURCE LEVEL: C-OADR

Z.TARGET
(1)TARGET CLASSIFICATION CAPABILITY: C-OADR
(2)TARGET CLASSIFICATION CAPABILITY AT VARIOUS RANGES: C-OADR
(3)TARGET TRACK CAPABILITY AT VARIOUS RANGES: C-OADR
(4)TARGET RESOLUTION CAPABILITY: C-OADR
(5)REFLECTED TARGET STRENGTH: C-OADR
(6)TARGET CAPABILITIES (E.G., SPEED, DEPTH) REVEALED BY SONAR DATA:
(A)ALL U.S. SUBMARINES: C-OADR
(B)OTHER THAN U.S. SUBMARINES: C-OADR
(7)MULTIPLE TARGET CAPABILITY: C-OADR
(8)TARGET ACOUSTIC SIGNATURES
(A)U.S. NAVY SHIPS - SONAR DATA CONTAINING ACOUSTIC SIGNATURES OF U.S. NAVY SHIPS SHALL BE CLASSIFIED IAW OPNAVINST S5513.3A, ENCLOSURE (57); SUBJ: SHIP SILENCING PROGRAM. FOR CLARIFICATION PURPOSES, THE FOLLOWING AR NOT TARGET ACOUSTIC SIGNATURES:
-1 NOISE MEASURED AT THE OUTPUT OF THE SONAR BEAMFORMER THROUGH THE SONAR BANDWIDTH. THIS IS NORMALLY REFERRED TO AS EQUIVALENT PLANE WAVE PRESSURE LEVEL IN SURFACE SHIP SONARS AND INCLUDES EFFECTS OF DIRECTIVITY INDEX AND BANDWIDTH. IN SUBMARINES THIS IS COMMONLY REFERRED TO AS LE OR LN - NDI: C-OADR
-2 NOISE MEASURED AT THE OUTPUT OF THE SONAR BEAMFORMER AND CONVERTED MATHEMATICALLY TO ANY OTHER BANDWIDTH: C-OADR
(B)FOREIGN SHIPS: S-OADR

AA.TIME
(1)TIME TO CLASSIFY TARGET: C-OADR
(2)PASSIVE LOCALIZATION TIME: C-OADR

BB.TRANSMITTING DIRECTIVITY: C-OADR
DATE OF ORIGIN)

CC.TRANSMITTING SEQUENC: C-OADR

DD.WAVE FORM OF SIGNAL: C-OADR

07.OPERATIONAL AND TACTICAL: NOT APPLICABLE

08.HARDWARE: NOT APPLICABLE

09.OTHER

A.ONLY APPROPRIATELY CLEARED U.S. CITIZENS WHO POSSESS A FIRM "NEED-TO-KNOW" SHALL BE GRANTED ACCESS TO NEXT GENERATION SONAR INFORMATION. FOR PURPOSES OF THIS GUIDE, NEXT GENERATION SONARS ARE THOSE CONCEIVED, DEVELOPED, TESTED, OR PRODUCED AFTER RECEIPT OF A REQUIREMENT DOCUMENT, AND WHICH HAVE NOT YET BEEN APPROVED FOR SERVICE USE. ALSO INCLUDED ARE MAJOR MODIFICATIONS TO SERVICE APPROVED SONARS WHICH SIGNIFICANTLY CHANGE OPERATING PARAMETERS OF THE BASIC SONAR AND EXPLORATORY DEVELOPMENT RELATED TO THESE SONAR EFFORTS. THIS ACCESS RESTRICTION SHALL BE INVOKED IN ALL APPLICABLE CURRENT AND FUTURE RDT&E TASK ASSIGNMENTS OR PROJECTS. IN CLASSIFIED CONTRACTS WITH U.S. INDUSTRY AND IN TECHNICAL PRESENTATIONS AND SYMPOSIA, CONFERENCES, ET CETERA, FOR PROCUREMENT REQUESTS TO WHICH THIS RESTRICTION APPLIES.

NWMAR130402

THE FOLLOWING SHALL BE INCLUDED IN THE CONTRACT SECURITY CLASSIFICATION SPECIFICATION (DD FORM 254)

B. INFORMATION RELATED TO SONAR MAY BE THE SUBJECT OF INFORMATION EXCHANGE AGREEMENTS BETWEEN THE UNITED STATES AND ONE OR MORE FOREIGN GOVERNMENTS. THESE AGREEMENTS MAY INCLUDE INFORMATION EXCHANGE PROGRAMS, MUTUAL WEAPONS DEVELOPMENT DATA EXCHANGE AGREEMENTS, THE TECHNICAL COOPERATION PROGRAMS AND COOPERATIVE SONAR RESEARCH PROGRAMS. THE SCOPE OF INFORMATION EXCHANGE IS OUTLINED IN AND SHALL BE GOVERNED BY EACH OF THE FORMAL AGREEMENTS FOR THESE PROGRAMS. INFORMATION RELEASED UNDER THE PROVISIONS OF THESE AGREEMENTS SHALL BE RE-EVALUATED CONTINUALLY TO ENSURE THAT IT DOES NOT VIOLATE THE PROHIBITION AGAINST RELEASE OF NEXT GENERATION SONAR INFORMATION UNLESS SPECIFICALLY AUTHORIZED BY THE CHIEF OF NAVAL OPERATIONS (OP-009DX)

C. EXPLORATORY DEVELOPMENT TECHNICAL INFORMATION
(1) THE COMBINATION OF ACOUSTIC UNCLASSIFIED TECHNOLOGY RESULTING IN A UNIQUE APPLICATION WHICH OFFERS A POTENTIAL ADVANTAGE TO THE U.S. NAVY WHEN APPLIED TO SONAR AND ACOUSTIC WARFARE PROGRAMS: C-OADR
(2) DISCOVERY OF NEW TECHNOLOGY WHICH OFFERS A POTENTIAL ADVANTAGE TO THE U.S. NAVY WHEN APPLIED TO A SONAR OR ACOUSTIC WARFARE SYSTEM: C-OADR

D. ADVANCED AND ENGINEERING DEVELOPMENT TECHNICAL INFORMATION. TECHNICAL INFORMATION CONCERNING SYSTEMS IN RESEARCH AND DEVELOPMENT SHOULD BE THE SUBJECT OF SECURITY CLASSIFICATION GUIDANCE FROM HIGHER AUTHORITY IAW OPNAVINST 5513.1B. IF THE GUIDANCE PROVIDED IS IN CONFLICT WITH THIS GUIDE, THE SECURITY CLASSIFICATION AND GUIDANCE PROVIDED IN THE TASKING DOCUMENT SHALL BE APPLICABLE. IN THE ABSENCE OF SUCH GUIDANCE, TECHNICAL INFORMATION CONCERNING SYSTEMS IN THESE PHASES OF DEVELOPMENT SHALL BE CLASSIFIED IAW 02E AND SHALL BEAR THE DOWNGRADING AND DECLASSIFICATION MARKING SET FORTH

E. THE CAPABILITIES AND CHARACTERISTICS OF DISCRETE FREQUENCY ANALYSIS TECHNIQUES ARE RELEASABLE ONLY TO PROPERLY CLEARED U.S. CITIZENS WITH A FIRM NEED-TO-KNOW. FURTHERMORE, NO INFORMAION CONCERNING ASW AND SUBMARINE DISCRETE FREQUENCY ANALYSIS EQUIPMENT, MAY BE RELEASED TO THE PUBLIC WITHOUT PRIOR APPROVAL OF THE CHIEF OF NAVAL OPERATIONS (OP-009DX)

F. SHIPPING PROVISIONS. SONAR AND ACOUSTIC WARFARE HARDWARE WHICH IS CLASSIFIED CONFIDENTIAL MAY BE SHIPPED AS UNCLASSIFIED BY ANY MODE OF AUTHORIZED TRANSPORTATION WHEN PACKAGED AS DESCRIBED HEREIN. FURTHERMORE, THIS MATERIAL WHICH IS SO PACKAGED, MAY BE STOWED IN OPEN STOWAGE ON A U.S. GOVERNMENT RESERVATION WITHIN THE CONTINENTAL U.S., HAWAII AND ALASKA. THE PACKAGING WHICH QUALIFIES FOR SUCH SHIPPING AND STOWAGE IS IN A CONTAINER SEALED WITH STRAP-TYPE NUMBERED SEALS, OR WHEN IN METAL OR WOODEN CONTAINERS OR PALLET ADAPTORS, BANDED ON A PALLET OR SKID. THE PALLETIZED UNIT LOAD MUST BE STEEL BANDED, HORIZONTALLY AND VERTICALLY, WITH A VERTICAL BAND PASSING BENEATH THE PALLET OR SKID BEE TO SECURE THE CONTAINERS/ITEMS IN PLACE. THE GROSS WEIGHT OF SUCH UNIT LOAD MUST EXCEED 200 POUNDS AND WILL PROVIDE SUCH SECURITY AS TO PREVENT ANY SINGLE ITEM OR CONTAINER FROM BEING REMOVED WITHOUT CUTTING THE BAND OR BREAKING THE SEAL. THE SHIPPING INSTRUCTIONS SET FORTH HEREIN DO NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLIANCE WITH OTHER PROVISIONS OF PARA 17, ISM, DOD 5220.22-M (NOTAL)

G. INQUIRIES CONCERNING THE SECURITY CLASSIFICATION

NWMAR130403

REPRODUCED AT GOVERNMENT EXPENSE

ASSIGNMENTS OUTLINED HEREIN SHALL BE FORWARDED TO COMNAVSEASYSCOM (9941)

10. BRIEF JUSTIFICATION

A. SONAR AND ACOUSTIC WARFARE EQUIPMENTS MAY UTILIZE UNIQUE TECHNOLOGY WHICH MUST BE CLASSIFIED TO PRESERVE THE U.S. ADVANTAGE IN THAT TECHNICAL AREA; HOWEVER, THESE EQUIPMENTS FREQUENTLY UTILIZE STATE-OF-THE-ART TECHNOLOGY WHICH IS CLASSIFIED FOR THE FOLLOWING REASONS:
(1) TO DENY ACCESS BY UNAUTHORIZED INDIVIDUALS TO TECHNICAL INFORMATION THROUGH WHICH EQUIPMENT DESIGN AND PERFORMANCE MAY BE EVALUATED. SUCH EVALUATIONS COULD PERMIT THE DEVELOPMENT OF COUNTERMEASURES AND TACTICS TO DEFEAT THE PURPOSE OF THE SYSTEM
(2) KNOWLEDGE OF HEAVY RELIANCE ON CERTAIN STATE-OF-THE-ART TECHNIQUES AS THE BASIS OF OPERATION OF THE SYSTEM COULD ASSIST IN COUNTERING THE SYSTEM

B. TECHNICAL INFORMATION CONCERNING SYSTEMS IN OPERATIONAL USE. THE RATIONALE FOR CLASSIFYING TECHNICAL INFORMATION CONCERNING SYSTEMS IN OPERATIONAL USE IS TO RESTRICT THE AVAILABILITY OF SUCH INFORMATION WHICH DISCLOSES THE SYSTEM PERFORMANCE

11. SECONDARY DISTRIBUTION: DOD AND DOD CONTRACTORS ONLY

REPRODUCED AT GOVERNMENT EXPENSE

NWMAR130404

REPRODUCED AT GOVERNMENT EXPENSE

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Job Order EH29
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FINANCIAL ACCOUNTING DATA SHEET
NAVMAT FORM 7300/10 (7-75)

A. INPUT-TYPE-CODE (CHECK ONE)
- [ ] ZPC COMMITMENT OF CONTRACT, CALL/ORDER OR MOD TO CALL/ORDER.
- [ ] ZMC COMMITMENT OF CONTRACT MOD WITH SUPPL PIIN STARTING WITH LETTER A OR P.

1. PIIN NUMBER	2. SUPPL PIIN	3. DATE EFFECTIVE YR.	MO.	DA.	4. REFERENCE DOCUMENT NO.	5. (C)	6. ACT CODE	7. CONTRACTOR	8. CONTRACT ADMIN. OFF.	9. PAYING OFFICE	10. DCASR IND.	11. OBL ACT
N00024-85-H-8197	EH29	87	04	01	N0002487PR25037							

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12. GFM YES	NO	13. TYPE OF MOD.	14. CHANGE-TARGET COST	15. CHANGE-CEILING PRICE
[ ]	[ ]			

16. ACT CODE	17. REFERENCE DOCUMENT NUMBER	18. DCIC	19. REF ACRN	20. ICI	21. APL COST	22. CLIN	23. SLIN	24. QUANTITY	26. UNIT	28. UNIT COST / 27. AND HMR/FMR NO.	28. ACCOUNTING DATA A. ACRN	B. APPROPRIATION	C. SUBHEAD	D. OBJ. CLASS	E. BCN PARM	BCN RM	F. SA	G. AAA	H. TT	I. PAA	J. COST CODE PROJ. UNIT	MCC	PDL/BS	29. AMOUNT
A	USS PAUL F. FOSTER (DD 964)					0001	AB				AB	1771804	702A	000	62	799	2	000406	2D	000000	00000	000	0000	$10,033,299.00
													Repairs, D&F Alts											

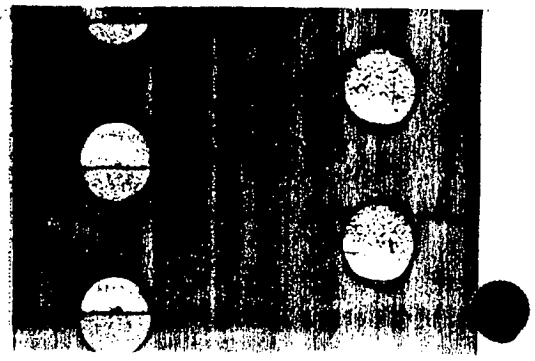
K. OTHER THAN NAVY ACCOUNTING DATA

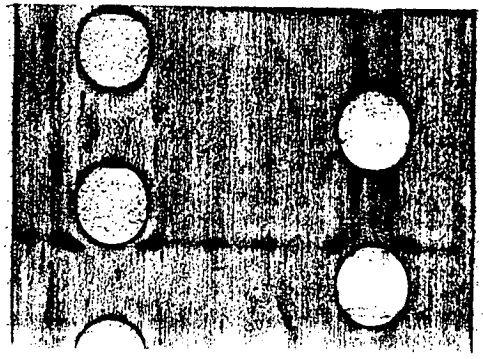
GRAND TOTAL → $26,423,466.00

PREPARED BY	DATE	COMPTROLLER CLEARANCE	SIGNATURE	DATE
Richard Schwaner (SEA-01P3)	4/1/87	OBLIGATION OF FUNDS IS AUTHORIZED IN AMOUNTS SHOWN IN COLUMN 29 ABOVE	R.E. Schwaner By direction of CAPT P.F. Grasser, CO, SUPSHIP Seattle WA 231521Z Sep 86	USN

SUPERSEDES NAVCOMPT FORMS 2254 & 2258

GPO 894-483





NORTHWEST MARINE IRON WORKS

MEMORANDUM

Date: March 20, 1987

To:

B. Zavin	G. Erb	B. Horn
R. Walquist	L. McGillivray	J. Carrie
G. Tuckey	T. Howell	R. Taylor
D. Nugent	J. Flynn	F. Chiossi
B. Birch	D. Stevens	✓N. Poissot
B. Huget	B. McCauley	

From: J. McMurry

Subject: SCHEDULE FOR FOSTER PRE-AWARD SURVEY AND SURVEY TEAM

---

1) The following is the survey team membership:

(a) Technical Survey Team

Al Torte (Team Leader)	NAVSEA
Robert Gorman	S/S San Diego
Ben Cudish	S/S Long Beach
Dick Criswell	S/S San Francisco
Ed King	S/S Seattle
Jack Bailey	S/S Seattle
Ron Daum	S/S Seattle

(b) Financial Survey Team

Lyle Ekdahl	S/S Seattle
Terry Jenkins	S/S Seattle
Margaret Falzone	DCAA Portland

MEMORANDUM

RE: SCHEDULE FOR FOSTER PRE-AWARD SURVEY AND SURVEY TEAM

2) The Schedule:

0800	Tuesday - 24 March	-	Assemble in Aft Conference Room.
0830		-	Break into groups.
1200-1300		-	Lunch
1300-1700		-	Continue survey.
0800	Wednesday - 25 March	-	Assemble in Aft Conference Room.

3) Section Leaders are as follows:

LEADER	SURVEY SECTION:
Ron Walquist	A) Managerment Organization and System.
Brodie Birch	B) Labor Relations/Employment Practice.
George Tuckey	C) Technical (Design) Organization and Personnel.
Don Stevens	D) Technical Control System Procedure.
Rick Taylor	F) QA and Reliability Maintainability.
Bill McCauley	G) Production Organization
George Tuckey	H) Production Planning and Control.
Braham Horn	I) Material Organization and Systems.

MEMORANDUM

RE: SCHEDULE FOR FOSTER PRE-AWARD SURVEY AND SURVEY TEAM

3) Section Leaders are as follows: (continued)

LEADER	SURVEY SECTION:
Ted Howell	K) Plant Facilities and Management.
Ted Howell	L) Waterfront Services.
Bill McCauley	M) Protection of Property.
Jack Flynn	N) Safety.

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC 20362-5101

IN REPLY REFER TO
4330
OPR: 0285JS
Ser 0285/287

MAR 18 1987

Mr. William Zavin
Northwest Marine Iron Works
5555 North Channel Avenue
Portland, OR 97217

Dear Mr. Zavin:

As discussed in our conversation 16 March 1987, your company is the apparent low offeror under RFP N00024-87-R-8508 for the regular overhaul of USS PAUL F. FOSTER (DD-964). Consequently, the Navy will conduct a Pre-Award Survey from 24 - 26 March 1987 to determine whether Northwest Marine Iron Works is responsible within the meaning of FAR 9.1, Responsible Prospective Contractor.

Request that you provide the following information to the Pre-Award Survey Team:

TECHNICAL CAPABILITY

1. Schedule which demonstrates that all required facilities will be made available in sufficient time to support the production and contract schedules. Bill McCauley

2. Copy of your most current Standard Form 17. J. McMurry

3. Key events schedule for ROH. D. NUGENT

4. Manpower curves for the following: D. NUGENT

   a. Total direct labor under this ROH and all other work to which currently committed, submission of bid.

   b. Total employment, both direct and indirect.

5. Personnel currently on board: B. BIRCH

   a. Administrative, Managerial
   b. Quality Assurance
   c. Engineering
   d. Production
      (i) Skilled
      (ii) Semi-skilled
      (iii) Unskilled

198

6. List by category and number, of deficiencies between 4 and 5 above, if 5 is less than 4. Hiring and training to overcome deficiencies, if any.

7. List of design and production work to be subcontracted, if any, indicating names of subcontractors and type of work to be performed, also indicating for each whether on a "first time" or "continuing" basis.

In addition, request you provide the following data to NAVSEA 0285:

FINANCIAL RESPONSIBILITY R. WARQUIST

1. Balance sheet and statement of income and retained earnings for the last three (3) accounting years, prepared and certified by an independent public accountant including comments and notes.

2. Interim Balance Sheet and Statement of Income and Earnings for the period ending not more than sixty (60) days prior to this request. If these statements are prepared by management, a corporate officer shall certify as follows:

   To the best of my knowledge, the accompanying Balance Sheet and Statement of Income and Retained Earnings present fairly the financial position of _____ on _____
   (Company) (Date)
   and the results of its operations for the period then ended, in conformity with generally accepted accounting principles applied on a basis consistent with that of the preceeding year.

3. Plan for financing company-wide indebtedness during performance of the proposed contract. The plan should include anticipated progress payments. In the event that outside financing is required, provide a letter from each contemplated source of such financing (e.g., a bank) which sets forth the projected amount or current balance and maximum amount available under the loan, the terms and conditions of the loan, and any restrictions imposed by the terms thereof.

4. Dollar value of incomplete U.S. Government contracts and orders on hand and the unliquidated progress payments thereunder.

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10. Any other information that the offeror believes would assist the Navy in making a determination of financial responsibility.

It would also be appreciated if a copy of RFP N00024-87-R-8508, including Specifications, and for your Technical Proposal, including responses to discussion questions, be available for use by the Pre-Award Survey Team.

If you have any questions, please contact SEA 0285/J. Smith at (202) 692-7714.

Sincerely,

R. L. KETTS
CONTRACTING OFFICER

NORTHWEST MARINE IRON WORKS

MEMORANDUM

Date: March 20, 1987

To:

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From: J. McMurry

Subject: SCHEDULE FOR FOSTER PRE-AWARD SURVEY AND SURVEY TEAM

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MEMORANDUM

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Page two.....

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DEFENSE CONTRACT AUDIT AGENCY
SAN FRANCISCO REGION
SEATTLE BRANCH OFFICE
FEDERAL CENTER SOUTH
4735 E. MARGINAL WAY SOUTH
SEATTLE, WASHINGTON 98134 - 2385

IN REPLY REFER TO
7261 762.17
7P177063

20 March 1987

Mr. Jerry McMurray
Northwest Marine Iron Works
5555 N. Channel Ave., Bldg. 2
Portland, Oregon 97217

Dear Mr. McMurray:

As discussed with you on 19 March 1987, NAVSEA has requested certain data for review of your financial capability. In connection with this review, it is requested that you have your bank or financial institution responsible for your line of credit submit a letter to NAVSEA, with a copy to our office, explaining the amount, terms, and conditions of this agreement. A copy of the agreement should be forwarded with this letter.

The NAVSEA office to which this letter should be addressed is:

Department of the Navy
Naval Sea Systems Command
ATTN: Cmdr. R. L. Ketts (SEA 0285)
Washington, D.C. 20362-5101

Questions regarding this request may be addressed to Mr. Charles Bendock at telephone (206) 764-6750.

Sincerely,

Charles M. Bendock

for DOUGLAS M. FREIMUTH
Branch Manager

Copy furnished:
SUPSHIP, Seattle

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC 20362-5101

IN REPLY REFER TO

4330
OPR: 0285JS
Ser 0285/287

MAR 18 1987

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Northwest Marine Iron Works
5555 North Channel Avenue
Portland, OR 97217

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If you have any questions, please contact SEA 0285/J. Smith at (202) 692-7714.

Sincerely,

R. L. KETTS
CONTRACTING OFFICER

3/17/87

TO: BILL ZAVIN
RON WALLQUIST

FROM: JERRY McMURRY

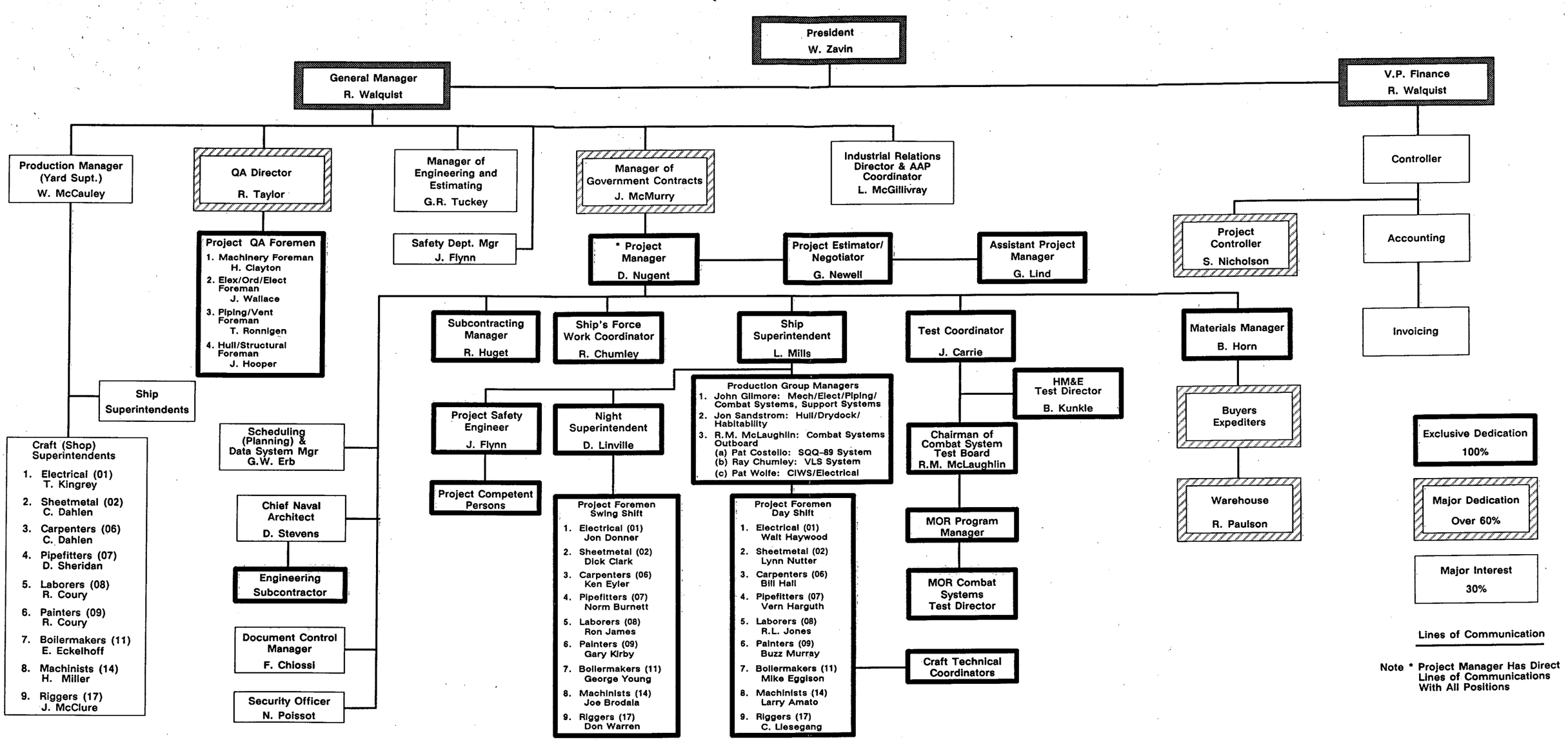
SUBJECT: LETTER ON CONTRACTING FROM JOZWICK (ATTACHED)

1. ATTACHED HAS STRONG IMPLICATIONS FOR A MAJOR COMPANY CHANGE IN OUR PERSPECTIVE AS TO HOW WE VIEW OUR CUSTOMER AND THE FRAME WORK IN WHICH WE DO OUR BUSINESS.

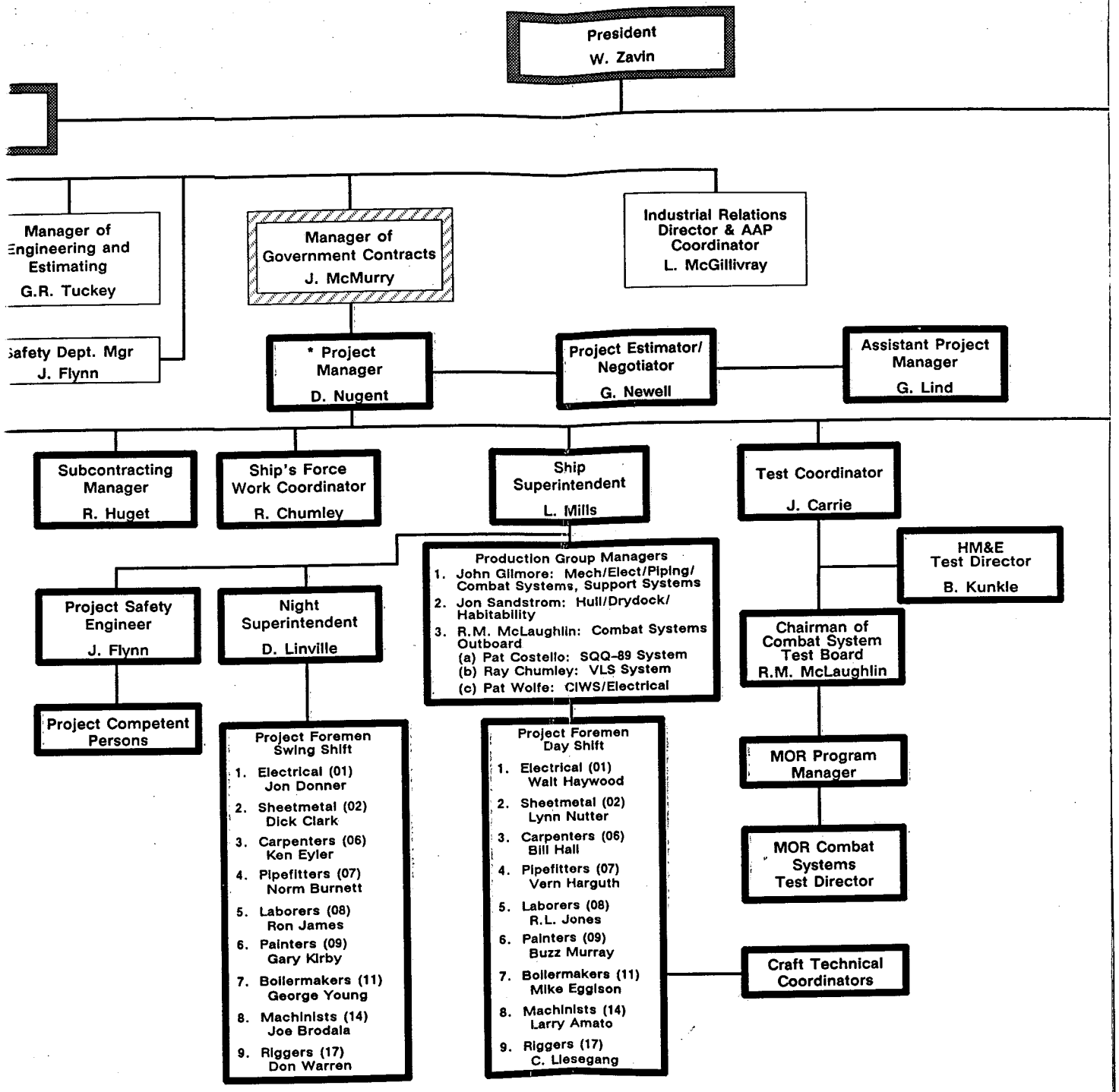
2. AS WE PREVIOUSLY DISCUSSED, WE NEED TO FORMULATE OUR APPROACH TO CONTRACTING. I WANT TO CONTINUE TO DISCUSS DIRECTLY WITH YOU!

Jerry McMurry

ALSO, WE NEED TO DISCUSS OUR FINANCIAL ARRANGEMENTS WITH TAYLOR & HINTZE!



NWMAR130420



NWMAR130421

DEPARTMENT OF THE NAVY
NAVAL SEA SYSTEMS COMMAND
WASHINGTON, DC 20362-5101

IN REPLY REFER TO

4330
OPR: 0285JS
Ser 0285/287

MAR 18 1987

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Sincerely,

R. L. KETTS
CONTRACTING OFFICER

3/18/87

OBSERVATION ISLAND CRITIQUE NOTES

A. WHY DID O/I CONTRACT DO WELL?

1) Had only one ship in the yard. Had a dedicated team and sufficient supervision.

2) Manhour budget was adequate.

3) Customer supervisors were professional, responsive, and easy to work with.

4) NMIW negotiated changes to a profit for the company.

5) NMIW knows the ship well.

6) Adequate time to do the job. Controllable workforce size.

7) Worked one shift with limited back shifts and overtime.

8) There was no drydock period.

9) Project papework was handled in an expeditious manner.

10) All Ship Superintendents and foremen had radios - communications were good.

11) NMIW was not hassled by the customer about housekeeping.

12) Daily production meetings between project management, ship superintendents, and foremen were very productive.

13) The project was well planned up front with good schedules and manning targets.

14) The project team members were all concerned on a daily basis with productivity, control of manpower, and doing an effective job. The attitude was right.

NWMAR130425

3/18/87

OBSERVATION ISLAND CRITIQUE NOTES

B. WHAT CAN WE DO BETTER

1) Speed up project paper flow, especially at project start.

2) Involve the leading men in the planning as early as possible.

C. HOW CAN WE DO LIKEWISE ON FOSTER?

1) Ensure the project is planned thoroughly.

2) Install the new material control system (MSC).

3) Improve the timeliness of issue of change orders.

4) Carry the "Cost Effective" attitude of O/I to FOSTER.

5) Play hardball in contracting with the Government and in dealing with Ship's Force.

6) Improve the quality of condition reports.

7) Have all ship superintendents and foremen keep daily records of project problems.

8) Improve daily communications by daily meetings, radios, daily reports, etc.

9) Improve daily work flow through better planning and scheduling.

NWMAR130426

30 + 1 DESTROYERS: "SPRUANCE" CLASS

Number	Name	FY/SCB	Builder	Laid down	Launched	Commissioned	Status
DD 963	SPRUANCE	70/224	Litton/Ingalls (Pascagoula)	17 Nov 1972	10 Nov 1973	20 Sep 1975	AA
DD 964	PAUL F. FOSTER	70/224	Litton/Ingalls (Pascagoula)	6 Feb 1973	23 Feb 1974	21 Feb 1976	PA
DD 965	KINKAID	70/224	Litton/Ingalls (Pascagoula)	19 Apr 1973	25 May 1974	10 July 1976	PA
DD 966	HEWITT	71/224	Litton/Ingalls (Pascagoula)	23 July 1973	24 Aug 1974	25 Sep 1976	PA
DD 967	ELLIOTT	71/224	Litton/Ingalls (Pascagoula)	15 Oct 1973	19 Dec 1974	22 Jan 1977	PA
DD 968	ARTHUR W. RADFORD	71/224	Litton/Ingalls (Pascagoula)	14 Jan 1974	1 Mar 1975	9 Apr 1977	AA
DD 969	PETERSON	71/224	Litton/Ingalls (Pascagoula)	29 Apr 1974	21 June 1975	9 July 1977	AA
DD 970	CARON	71/224	Litton/Ingalls (Pascagoula)	1 July 1974	24 June 1975	1 Oct 1977	AA
DD 971	DAVID R. RAY	71/224	Litton/Ingalls (Pascagoula)	23 Sep 1974	23 Aug 1975	19 Nov 1977	PA
DD 972	OLDENDORF	72/224	Litton/Ingalls (Pascagoula)	27 Dec 1974	21 Oct 1975	4 Mar 1978	PA
DD 973	JOHN YOUNG	72/224	Litton/Ingalls (Pascagoula)	17 Feb 1975	7 Feb 1976	20 May 1978	PA
DD 974	COMTE DE GRASSE	72/224	Litton/Ingalls (Pascagoula)	4 Apr 1975	26 Mar 1976	5 Aug 1978	PA
DD 975	O'BRIEN	72/224	Litton/Ingalls (Pascagoula)	9 May 1975	8 July 1976	3 Dec 1977	PA
DD 976	MERRILL	72/224	Litton/Ingalls (Pascagoula)	16 June 1975	1 Sep 1976	11 Mar 1978	PA
DD 977	BRISCOE	72/224	Litton/Ingalls (Pascagoula)	21 July 1975	8 Jan 1977	3 June 1978	AA
DD 978	STUMP	72/224	Litton/Ingalls (Pascagoula)	22 Aug 1975	30 Apr 1977	19 Aug 1978	AA
DD 979	CONOLLY	74/224	Litton/Ingalls (Pascagoula)	29 Sep 1975	25 June 1977	14 Oct 1978	AA
DD 980	MOOSBRUGGER	74/224	Litton/Ingalls (Pascagoula)	3 Nov 1975	20 Aug 1977	16 Dec 1978	AA
DD 981	JOHN HANCOCK	74/224	Litton/Ingalls (Pascagoula)	16 Jan 1976	29 Oct 1977	10 Mar 1979	AA
DD 982	NICHOLSON	74/224	Litton/Ingalls (Pascagoula)	20 Feb 1976	28 Jan 1978	12 May 1979	AA
DD 983	JOHN RODGERS	74/224	Litton/Ingalls (Pascagoula)	12 Aug 1976	25 Feb 1978	14 July 1979	AA
DD 984	LEFTWICH	74/224	Litton/Ingalls (Pascagoula)	12 Nov 1976	8 Apr 1978	25 Aug 1979	PA
DD 985	CUSHING	74/224	Litton/Ingalls (Pascagoula)	2 Feb 1977	17 June 1978	20 Oct 1979	PA
DD 986	HARRY W. HILL	75/224	Litton/Ingalls (Pascagoula)	1 Apr 1977	10 Aug 1978	17 Nov 1979	PA
DD 987	O'BANNON	75/224	Litton/Ingalls (Pascagoula)	24 June 1977	25 Sep 1978	15 Dec 1979	AA
DD 988	THORN	75/224	Litton/Ingalls (Pascagoula)	29 Aug 1977	14 Nov 1978	16 Feb 1980	AA
DD 989	DEYO	75/224	Litton/Ingalls (Pascagoula)	14 Oct 1977	20 Jan 1979	22 Mar 1980	AA
DD 990	INGERSOLL	75/224	Litton/Ingalls (Pascagoula)	16 Dec 1977	10 Mar 1979	12 Apr 1980	PA
DD 991	FIFE	75/224	Litton/Ingalls (Pascagoula)	6 Mar 1978	1 May 1979	31 May 1980	PA
DD 992	FLETCHER	75/224	Litton/Ingalls (Pascagoula)	24 Apr 1978	16 June 1979	12 July 1980	PA
DD 997	. . . . .	78/224	Litton/Ingalls (Pascagoula)	1980	1982	1983	Bldg.

Displacement:	7,800 tons full load
Length:	529 feet (161.2 m) wl
	563⅓ feet (171.1 m) oa
Beam:	55 feet (17.6 m)
Draft:	29 feet (8.8 m)
Propulsion:	gas turbines (General Electric); 80,000 shp; 2 shafts
Speed:	30+ knots
Range:	6,000 + n.miles at 20 knots
Manning:	288-302 (18-19 O + 270-283 enlisted)
Helicopters:	1 SH-3 Sea King or 2 SH-60B LAMPS
Missiles:	1 8-tube NATO Sea Sparrow launcher Mk 29
	2 quad tubes for Harpoon SSM Mk 141
Guns:	2 5-inch (127-mm) 54 cal DP Mk 45 (2 × 1)
ASW weapons:	1 8-tube ASROC launcher Mk 16
	6 12.75-inch (324-mm) torpedo tubes Mk 32 (2 × 3)
Radars:	SPS-40B air search
	SPS-55 surface search
Sonars:	SQS-53 bow-mounted
Fire control:	1 Mk 86 gun FCS
	1 Mk 91 missile FCS
	1 Mk 116 ASW FCS
	1 SPG-60 radar
	1 SPQ-9A radar

The SPRUANCE-class destroyers were developed as replacements for the large number of World War II-built general purpose destroyers of the ALLEN M. SUMNER (DD 692) and GEARING (DD 710) classes that reached the end of their service lives in the mid-1970s. These are specialized ASW ships, built with only point-defense missiles. However, they are now scheduled for the installation of Vertical Launch Systems.

The four KIDD-class missile destroyers and TICONDEROGA (CG 47)-class missile cruisers have the same hull, propulsion, and auxiliary systems. The SPRUANCE class represents the largest number of surface combatants built to the same design by any Western navy except for the frigates of the KNOX (FF 1052) and OLIVER HAZARD PERRY (FFG 7) classes.

Builders: The entire SPRUANCE class was contracted with a single shipyard to facilitate design and mass production. A contract for the development and production of 30 ships was awarded on 23 June 1970 to a new yard established by the Ingalls Shipbuilding Division of Litton Industries at Pascagoula, Mississippi. Labor and technical problems delayed the construction of these ships.

Class: In addition to these 31 ships, four were ordered with the Mk 26/Standard AAW missile system for the Iranian Navy, but were completed as the KIDD class, accounting for hull numbers DD 993–996.

One additional ship of this class was ordered on 29 September 1979 (DD 997). This ship was one of two authorized (one funded) by Congress with the proviso that, in the wording of the Senate Com-

NWMAR130427

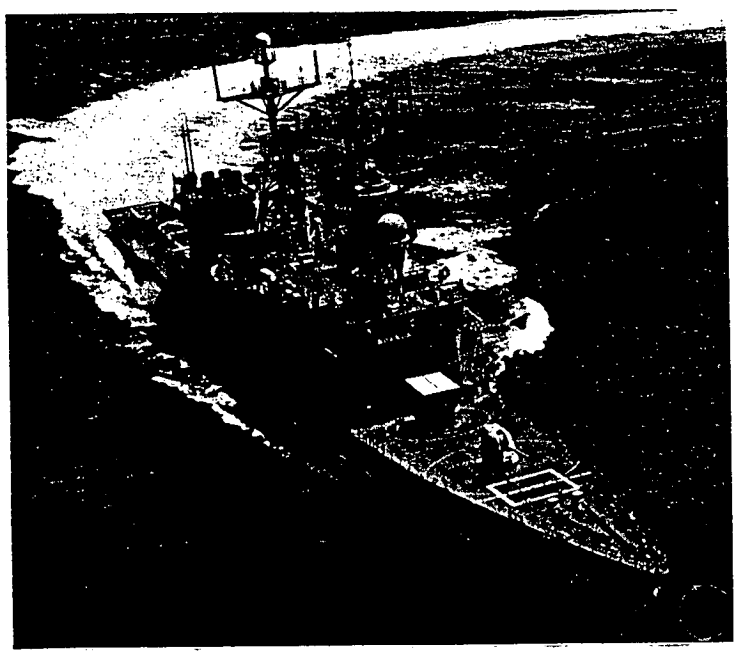
mittee on Armed Services, "The committee does not intend for these funds to be used for acquisition of two standard 963 class destroyers; rather, it is the committee's intention that these ships be the first element in a new technology approach to the problems of designing surface escorts. The standard 963 class design should be modified to substantially increase the number of helicopter aircraft carried." This feature could permit the eventual modification of the ships to operate VSTOL aircraft as well. However, the Navy chose to build the ship as a standard SPRUANCE, and no additional ships were funded by Congress.

Design: The SPRUANCE design provides for the subsequent installation of additional weapon systems, specifically the Mk 26 missile launcher (and subsequently the Ex 41 VLS) forward with removal of the ASROC launcher and aft with removal of the Sea Sparrow launcher. In addition, the forward 5-inch gun could be replaced by the now-canceled Mk 71 8-inch Major Caliber Lightweight Gun.

Engineering: These are the first U.S. Navy surface combatants to have gas-turbine propulsion. Previously, gas turbines were installed in several Navy patrol combatants and in HAMILTON-class (WHEC 715) and some RELIANCE-class (WMEC 615) cutters.

The SPRUANCE-class ships have four LM2500 gas turbines, which are modified TF39 aircraft turbofan engines. One engine can propel the ships at about 19 knots, two engines at about 27 knots, and three and four engines can provide speeds in excess of 30 knots.

Guns: These ships are each scheduled to receive two Phalanx CIWS.

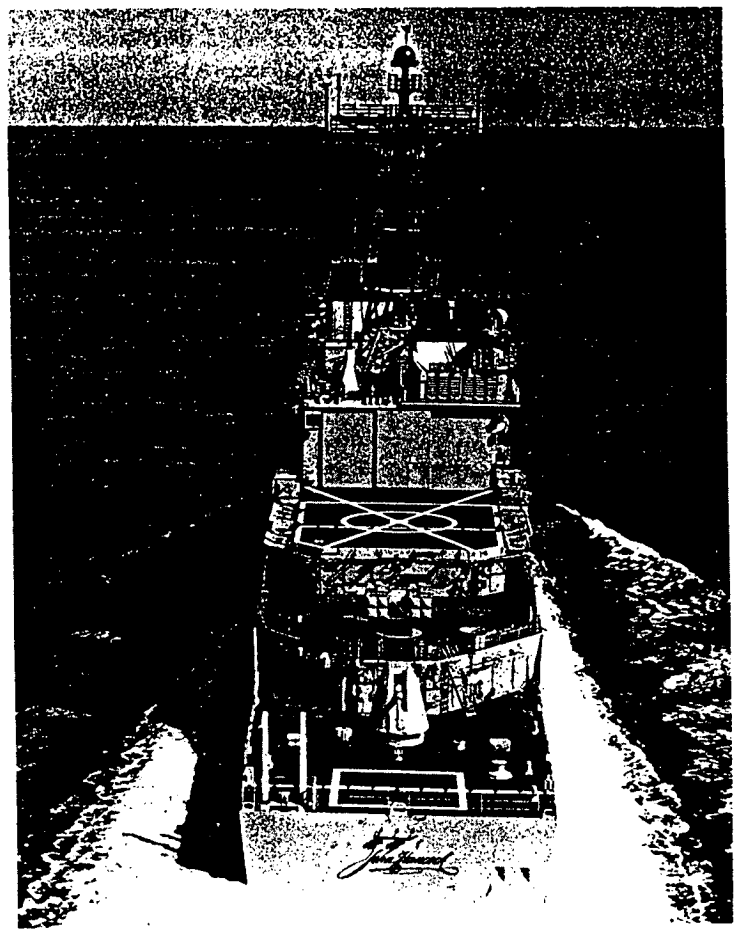


ELLIOTT (1978, U.S. Navy, PHC William E. Kendall)

Helicopters: The hanger sizes in these ships vary; they are 49 to 54 feet long and 21 to 23½ feet wide.

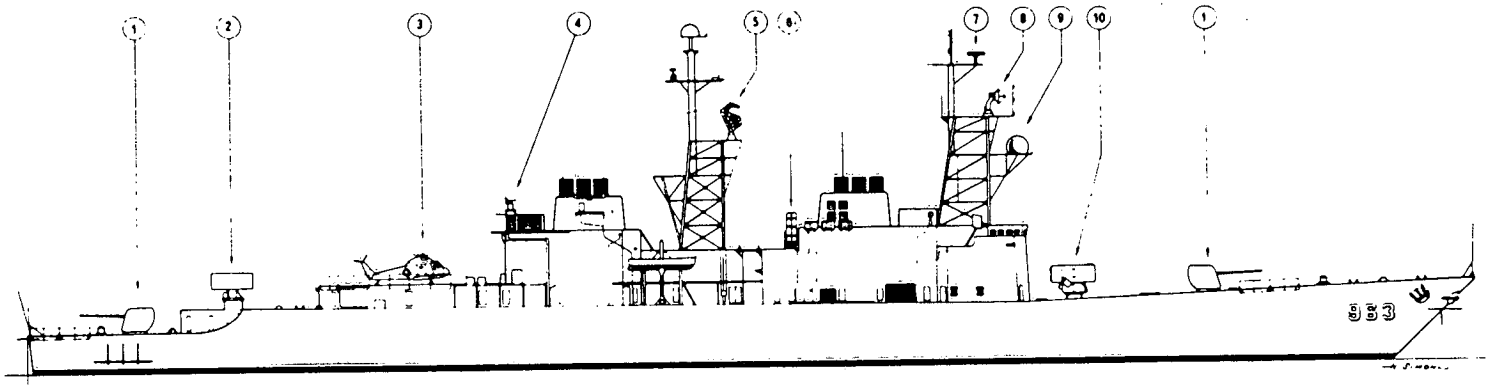
Missiles: The MERRILL was fitted with an armored launcher for four Tomahawk antiship cruise missiles in 1980. All of these ships are scheduled to receive two vertical launchers for ASW and antiship cruise missiles; each launcher will hold 61 weapons, which will make these among the most heavily armed surface combatants afloat.

Sonars: Original plans provided for these ships to have the SQS-35 Independent Variable Depth Sonar (IVDS) in addition to their bow-mounted SQS-53. The IVDS was deleted because of the effectiveness of the SQS-53. The decision has subsequently been made to fit these ships with the SQR-19 TACTAS when that sonar becomes available.



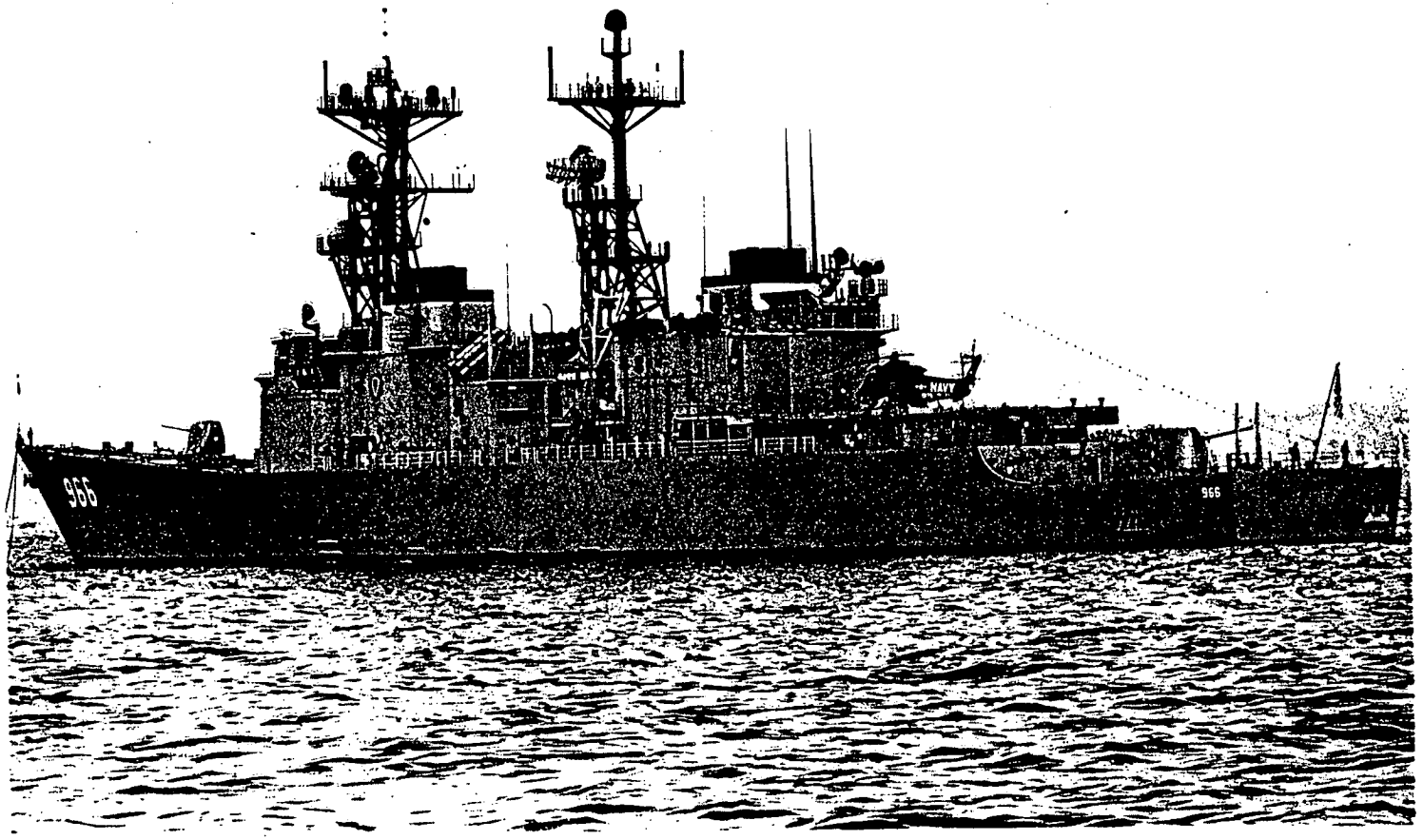
The JOHN HANCOCK's stern displays the signature of the ship's namesake instead of the normal block letters. The openings at right are for the ship's SLQ-25 Nixie torpedo countermeasures system. (1979, courtesy USS JOHN HANCOCK)

NWMAR130428



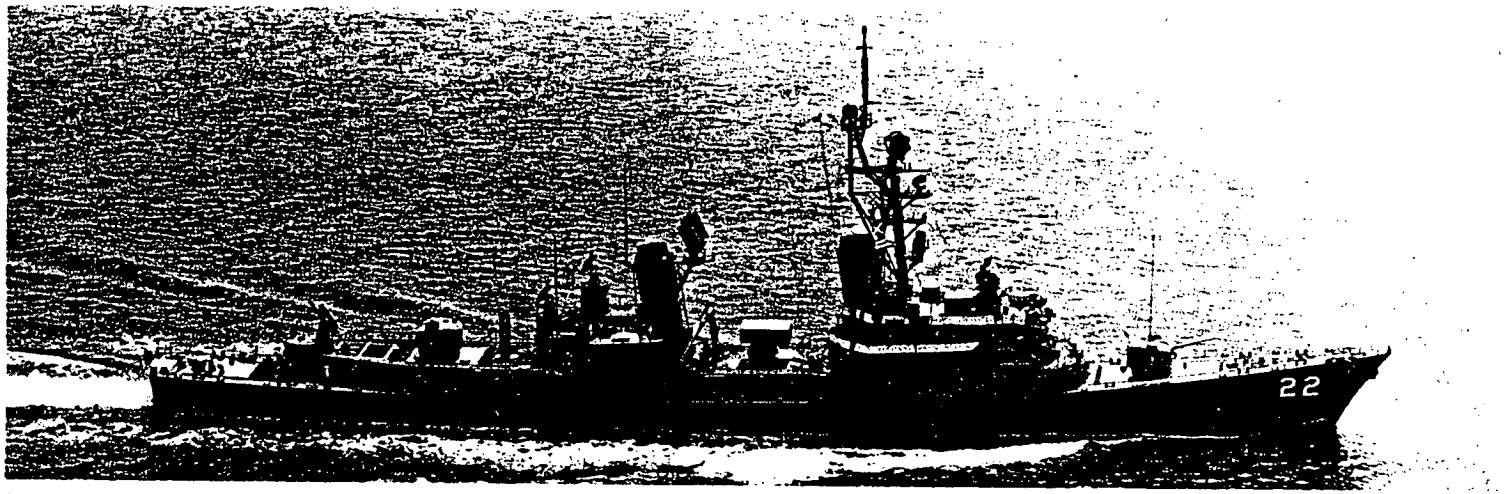
Line drawing of SPRUANCE

1. 5-inch DP Mk 45 gun. 2. NATO Sea Sparrow launcher 3. SH-2F LAMPS helicopter on flight deck 4. Mk 91 missile FCS 5. SPS-40B radar 6. Harpoon missiles 7. SPS-55 radar 8. SPG-60 radar 9. SPQ-9A radar 10. ASROC launcher

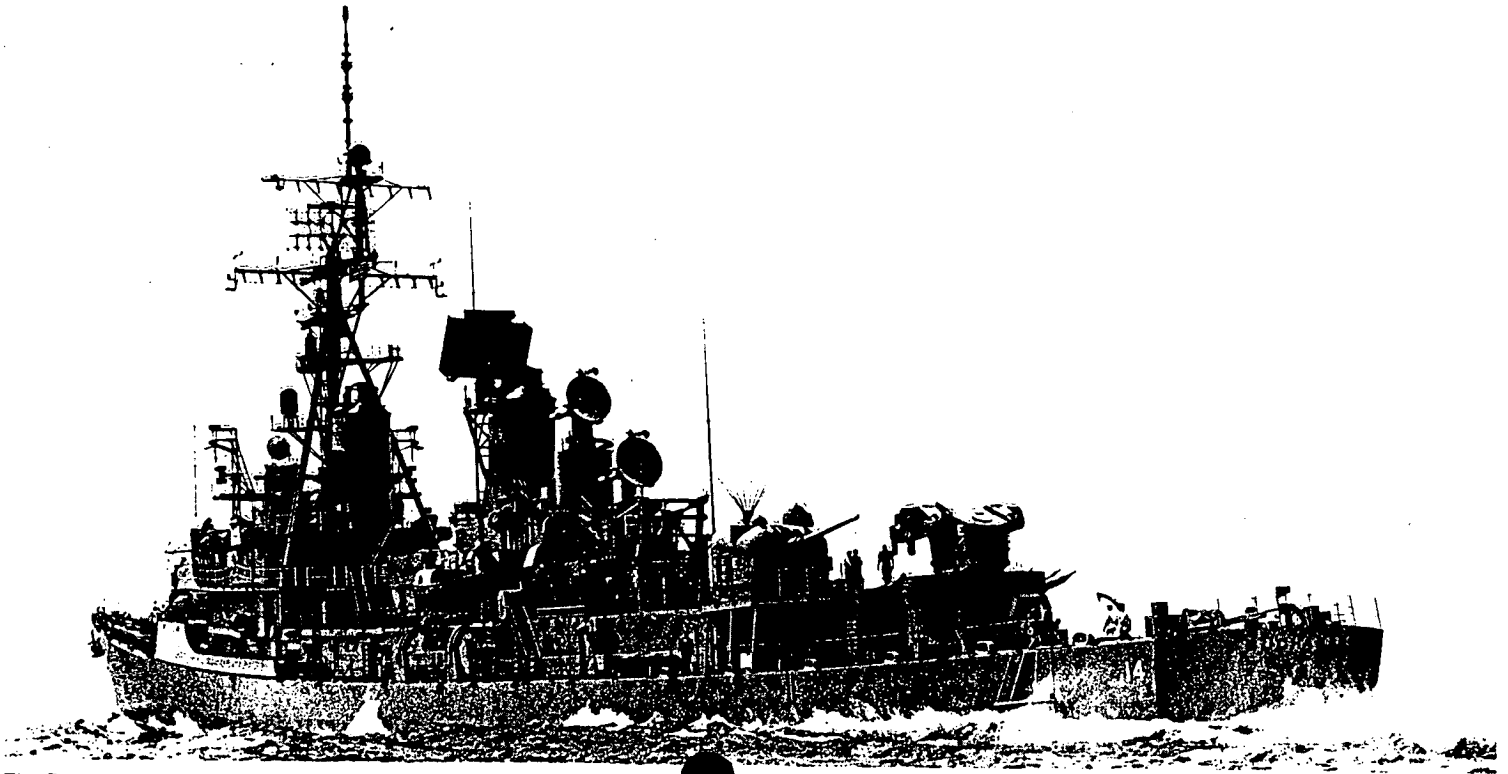


HEWITT with SH-2F LAMPS on flight deck (1979. Giorgio Arra)

NWMAR130429



The BENJAMIN STODDERT steams through the mirror-smooth Pacific. A later ADAMS-class ship, the STODDERT has SPS-40 radar on the tripod mast and a single-arm Mk 13 launcher aft. The SPS-39A 3-D radar is on a platform attached to the second funnel, alleviating the weight of a second mast. Unlike the SHERMAN DDG conversions, the ADAMS-class ships have a second 5-inch gun. (1979, U.S. Navy, PH2 D. R. James)



The BUCHANAN at high speed. She has gear on her fantail, which is too [illegible] for helicopter landings. The twin-arm Mk 11 Tartar/Standard-MR launcher has an "E" and chevron indicating excellence in missilery for two years. The two SPG-51C radars provide the ability to guide two missiles simultaneously, compared to the single missile guidance capability of the SHERMAN DDGs.

NWMAR130430

23 March 1987

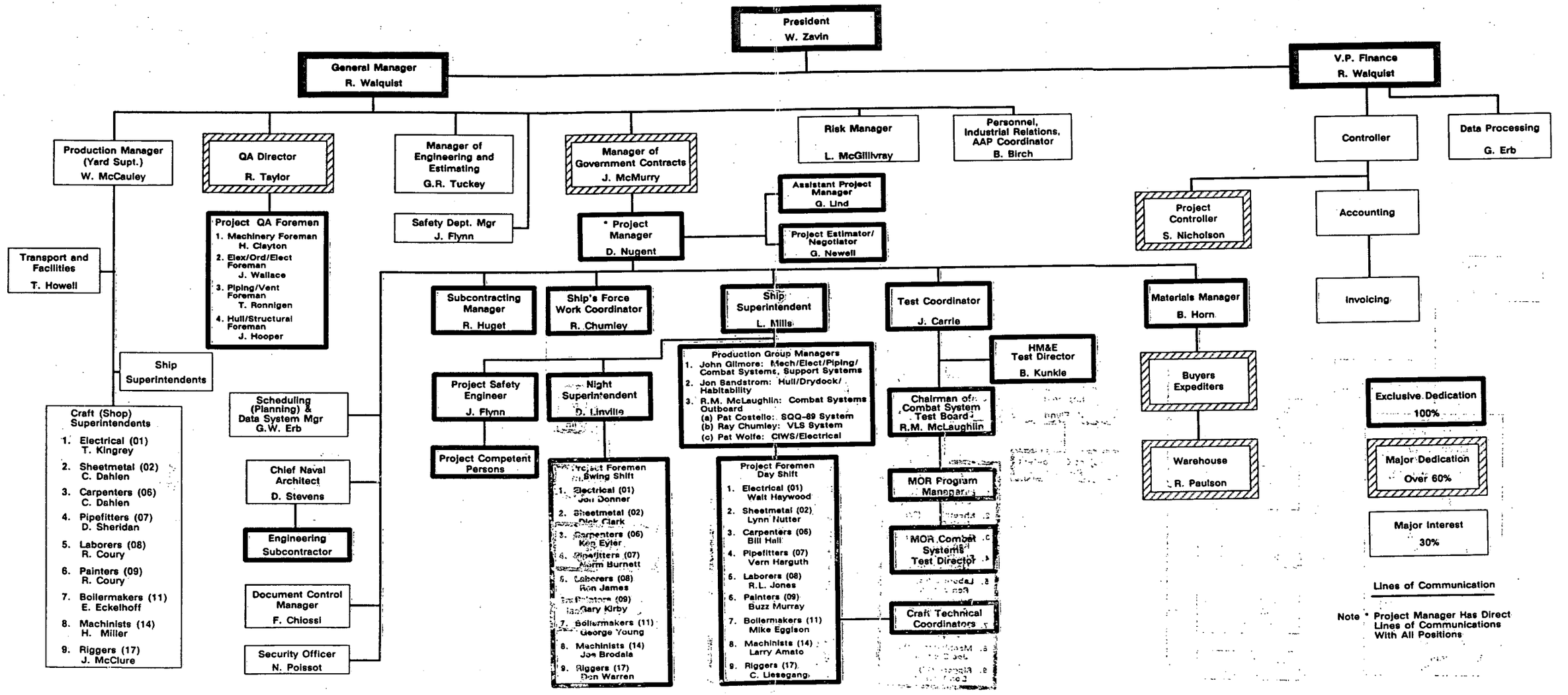
MSR SURVEY

SURVEY AREA	RESPONSIBLE NMIW PERSON
(a) Management and Administrative Functions	R. Walquist/G. Tuckey/J. McMurry
(b) Materials	B. Horn
(c) Production and Technical Capability	B. McCauley/D. Stevens
(d) Facilities & Yard Tour	T. Howell/B. McCauley
(e) Quality Assurance	R. Taylor
(f) Safety	J. Flynn
(g) Security	B. McCauley/T. Howell

EEO -AAP- / FOR SUP SHIP -

Man DAYS 15 45 40

FACTOR ÷ 21



NWMAR130432

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
00984	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	31.00		31.00

210399

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210399

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210399

PAY TO

AUL INSTRUMENT
1055 STEWART AVEUNE
GARDEN CITY, N.Y. 11530

AMOUNT
********31.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
02417	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	76.00		76.00

210400

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210400

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210400

PAY TO

AIR PRODUCTS & CHEMICALS
PO BOX 14249
940 S.E. 7TH AV.
PORTLAND, OR 97214

AMOUNT
********76.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
02430	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	6.00		6.00

210401

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210401

24-12 / 1230 552

PAY TO

AIRCO WELDING SUPPLY
3424 N.W. YEON
PORTLAND, OR 97210

DATE	CHECK NO.
MARCH 01, 1988	210401

AMOUNT
*********6.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
02435	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	13.00		13.00

210402

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210402

24-12 / 1230 552

PAY TO

AIRCRAFT APPLIANCES & EQUI
FLUID POWER DIVISION
150 EAST DRIVE
BRAMALEA ONTARIO, CAN. L6T

DATE	CHECK NO.
MARCH 01, 1988	210402

AMOUNT
********13.00*

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
02720	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	33.00		33.00

210403

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210403

24-12 / 1230 552

PAY TO

ALASKAN COPPER & BRASS
P.O. BOX 5067
PORTLAND, OR 97228

DATE	CHECK NO.
MARCH 01, 1988	210403

AMOUNT
********33.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
02965	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	19.00		19.00

210404

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210404

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210404

AMOUNT
********19.00*

PAY TO
ALDERCRAFT CO., INC.
5433 N.E. 30TH STREET
PORTLAND, OR 97211

Gilbert A. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON
(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
04021	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	15.00		15.00

210406

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210406

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210406

PAY TO

AMERICAN MACHINE & GEAR
735 N.W. 16TH AVE.
PORTLAND, OR 97209

AMOUNT
********15.00*

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
04050	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	67.00		67.00

210407

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210407

24-12 / 1230 552

PAY TO

AMERICAN-PACIFIC CORP.
P.O. BOX 3087
PORTLAND, OR 97208

DATE	CHECK NO.
MARCH 01, 1988	210407

AMOUNT
********67.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
04470	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	136.00		136.00

210410

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210410

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210410

PAY TO
AMERICAN STEEL
4033 N.W. YEON
PORTLAND, OR 97210

AMOUNT
*******136.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
05180	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	13.00		13.00

210413

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210413

24-12 / 1230 552

PAY TO

AQUA-CHEM, INC.
WATER TECHNOLOGIES DIVISIO
P.O. BOX 421
MILWAUKIE WI 53201

DATE	CHECK NO.
MARCH 01, 1988	210413

AMOUNT
********13.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 05300

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	8.00		8.00

210414

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210414

24-12 / 1230 552

DATE: MARCH 01, 1988

CHECK NO.: 210414

PAY TO

ARENT MACHINERY CO.
15815 S.E.135TH AVE
CLACKAMAS OREGON 97015

AMOUNT: *********8.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
05760	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	25.00		25.00

210415

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210415

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210415

PAY TO

ART METAL USA, INC.
300 PASSAIC ST
NEWARK NJ 07104

AMOUNT
********25.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 06235

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	135.00		135.00

210417

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210417

24-12 / 1230 552

PAY TO
ATLAS COPCO
1212 EAST ASH AVE.
FULLERTON, CA. 92631

DATE: MARCH 01, 1988

CHECK NO.: 210417

AMOUNT: *******135.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 08440

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	31.00		31.00

210422

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210422

24-12 / 1230 552

PAY TO
BEARINGS, INC.
2720 N. W. 29TH
PORTLAND, OR 97210

DATE: MARCH 01, 1988

CHECK NO.: 210422

AMOUNT: ********31.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
09430	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	88.00		88.00

210428

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210428

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210428

PAY TO

BINGHAM WILLAMETTE
2800 N.W. FRONT
PORTLAND, OR 97210

AMOUNT
********88.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
09450	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	189.00		189.00

210429

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210429

24-12/1230 552

PAY TO
BIRD-JOHNSON CO./MARINE DI
110 NORFOLK STREET
WALPOLE, MA 02081

DATE	CHECK NO.
MARCH 01, 1988	210429

AMOUNT
*******189.00*

William H Jain #
Gilbert M. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
13100	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	10.00		10.00

210438

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210438

24-12 / 1230 552

PAY TO

CRB MANUFACTURING
7101 S.E. 94TH AVE.
PORTLAND, OR 97266

DATE	CHECK NO.
MARCH 01, 1988	210438

AMOUNT
********10.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2.
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
14276	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	13.00		13.00

210440

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210440

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210440

PAY TO
CARSON OIL COMPANY
P.O. BOX 4100-57
PORTLAND, OREGON 97208

AMOUNT
********13.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
15161	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	22.00		22.00

210442

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210442

24-12 / 1230 552

PAY TO
CERTIFIED WELDING WORKS
1035 S.E. SALMON
PORTLAND, ORE 97214

DATE	CHECK NO.
MARCH 01, 1988	210442

AMOUNT
********22.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240.

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
15175	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	30.00		30.00

210443

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210443

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210443

PAY TO

CENTRIFUGE CONSULTANTS
P.O. BOX 868
LA PORTE, TX 77571

AMOUNT
********30.00*

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
16080	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	11.00		11.00

210444

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210444

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210444

PAY TO

CHOWN HARDWARE & MACHINE
333 N. W. 16TH AVE.
PORTLAND, OR 97209

AMOUNT
********11.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
16695	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	71.00		71.00

210446

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210446

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210446

AMOUNT
********71.00*

PAY TO
CLEAN SYSTEMS INC.
C/O IRS ATTN: MR. FRY
P.O. BOX 12649
SEATTLE, WA 98111

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 16928

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	5.00		5.00

210448

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210448

24-12 / 1230 552

PAY TO

COAST ENGINE & EQPT. CORP.
4012 EAST - WEST ROAD
TACOMA, WA 98421

DATE: MARCH 01, 1988

CHECK NO.: 210448

AMOUNT: *********5.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
16938	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	29.00		29.00

210449

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210449

24-12 / 1230 552

PAY TO

COAST INDUSTRIAL SUPPLY
P.O. BOX 14902
PORTLAND, OR 97214

DATE	CHECK NO.
MARCH 01, 1988	210449

AMOUNT
********29.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 16957

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	116.00		116.00

210450

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210450

24-12 / 1230 552

PAY TO
COASTAL OIL FILT. & FLSH I
2027 "B" STREET
WASHOUGAL, WA 98671

DATE: MARCH 01, 1988

CHECK NO.: 210450

AMOUNT: *******116.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
16965	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	65.00		65.00

210451

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210451

24-12/1230 552

PAY TO

COASTIR DIV. JESSE ENG. CO
5225 7TH STREET EAST
TACOMA, WA 98424

DATE	CHECK NO.
MARCH 01, 1988	210451

AMOUNT
********65.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

4/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 17145

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	45.00		45.00

210452

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210452

24-12 / 1230 552

PAY TO

COLBY CRANE & MFG. CO.
2929 16TH AVENUE, S.W.
SEATTLE, WASHINGTON 98134

DATE: MARCH 01, 1988

CHECK NO.: 210452

AMOUNT: ********45.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
17147	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	10.00		10.00

210453

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210453

24-12 / 1230 552

PAY TO

COLEMAN INDUSTRIAL SUPPLY
1331 INDUSTRIAL WAY
LONGVIEW, WA 98632

DATE	CHECK NO.
MARCH 01, 1988	210453

AMOUNT
********10.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
17260	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	166.00		166.00

210455

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210455

24-12 / 1230 552

PAY TO

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

DATE	CHECK NO.
MARCH 01, 1988	210455

AMOUNT
*******166.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
18087	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	4.00		4.00

210458

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210458

24-12 / 1230 552

PAY TO
COMMERCIAL REPAIR & MACH
P.O. BOX 2069
VANCOUVER, WASH 98668

DATE	CHECK NO.
MARCH 01, 1988	210458

AMOUNT
*********4.00*

William H. Zain
Gilbert M. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
18135	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	11.00		11.00

210459

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210459

24-12 / 1230 552

PAY TO

COMPLETE ABRASIVE BLASTING
SYSTEMS, INC
18250 68TH AVE. SOUTH
KENT, WA 98031

DATE	CHECK NO.
MARCH 01, 1988	210459

AMOUNT
********11.00*

William H Jarvis
Gilbert M. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
19810	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	12.00		12.00

210463

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210463

24-12 / 1230 552

PAY TO

CROMPTON INSTRUMENTS
5646 JILLSON ST
LOS ANGELES CA 90040

DATE	CHECK NO.
MARCH 01, 1988	210463

AMOUNT: ********12.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
20165	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	4.00		4.00

5-3-88 Mailed
USS Cushing
Cushing Supply Officers
FPO
San Francisco, CA 96662-1223

210464

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210464

24-12 / 1230 552

PAY TO CUSHING SUPPLY OFFICER

DATE	CHECK NO.
MARCH 01, 1988	210464

AMOUNT
**********4.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
20554	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	127.00		127.00

210466

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210466

24-12 / 1230 552

PAY TO
DLI ENGINEERING CORP.
253 WINSLOW WAY WEST
BAINBRIDGE ISLAND, WA 98110

DATE	CHECK NO.
MARCH 01, 1988	210466

AMOUNT
*******127.00*

William H. Jarvis
Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
20961	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	15.00		15.00

210467

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210467

24-12 / 1230 552

PAY TO
DASIC INTERNATIONAL CORP.
1035 S.E. 9TH
PORTLAND, OR 97214

DATE	CHECK NO.
MARCH 01, 1988	210467

AMOUNT
********15.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 21030

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	17.00		17.00

210468

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210468

24-12 / 1230 552

DATE: MARCH 01, 1988

CHECK NO.: 210468

PAY TO
A. J. DAVIS & SONS, INC.
P.O. BOX 14654
PORTLAND, OR 97214

AMOUNT: ********17.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
21070	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	6.00		6.00

210469

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210469

24-12 / 1230 552

PAY TO
DAVIS INDUSTRIAL PRODUCTS
P.O. BOX 4228
PORTLAND, OR 97208

DATE	CHECK NO.
MARCH 01, 1988	210469

AMOUNT
*********6.00*

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

A/C 240 3/88 DD

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
22040	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	27.00		27.00

210471

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210471

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210471

PAY TO

DICK'S PUMP & EQUIP
2304 N. KILLINGSWORTH
PORTLAND, OREGON 97217

AMOUNT
********27.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

4 / c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
23715	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	20.00		20.00

210472

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210472

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210472

PAY TO

DUPLEX PRODUCTS INC
7150 S.W. HAMPTON ST.
SUITE 221
TIGARD, OR 97223

AMOUNT
********20.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
26760	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	25.00		25.00

210477

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210477

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210477

PAY TO

ESCO CORP.
2475 N.W. VAUGHN
PORTLAND, OR 97210

AMOUNT
********25.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 27975

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	19.00		19.00

210481

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210481

24-12 / 1230 552

DATE: MARCH 01, 1988

CHECK NO.: 210481

PAY TO
FARR WEST MARINE
P.O. BOX 8789
PORTLAND, OREGON 97207

AMOUNT: ********19.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
28230	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	8.00		8.00

210485

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210485

24-12 / 1230 552

PAY TO

FEDERATED WEINER METALS
P.O. BOX 10326
PORTLAND, OR 97210

DATE	CHECK NO.
MARCH 01, 1988	210485

AMOUNT
*********8.00*

William H Zain #
Gilbert M. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
28638	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	184.00		184.00

210487

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210487

24-12 / 1230 552

PAY TO

FLAME-SPRAY INC.
P.O. BOX 20665
4674 ALVARADO CANYON RD
SAN DIEGO, CALIF 92120

DATE	CHECK NO.
MARCH 01, 1988	210487

AMOUNT
*******184.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
29511	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	369.00		369.00

210490

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210490

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210490

PAY TO
FRASER BOILER & DIESEL SVC
P.O. BOX 80905
SEATTLE, WA 98108

AMOUNT
*******369.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
29710	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	13.00		13.00

210491

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210491

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210491

PAY TO

FRICTION PRODUCTS MFG. CO.
1001 S. E. MAIN ST.
PORTLAND, OR 97214

AMOUNT
********13.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
30240	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	9.00		9.00

210492

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210492

24-12 / 1230 552

PAY TO
GALVANIZERS, INC.
2406 N. W. 30TH
PORTLAND, OR 97210

DATE	CHECK NO.
MARCH 01, 1988	210492

AMOUNT
*********9.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
30478	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	25.00		25.00

210493

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210493

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210493

PAY TO

GAS ADVANCE SYSTEMS
P.O. BOX 12601
PORTLAND, OREGON 97212

AMOUNT
********25.00*

Gilbert J. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
30484	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	59.00		59.00

210495

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210495

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210495

PAY TO

GASKET TECHNOLOGY
478 N.E. 219TH AVE.
TROUTDALE, OR 97060

AMOUNT
********59.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 31585

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	21.00		21.00

210496

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210496

24-12 / 1230 552

PAY TO
GENERAL STEEL, INC.VANC
2000 E COLUMBIA BLDG91W
VANCOUVER WA 98661

DATE: MARCH 01,1988

CHECK NO.: 210496

AMOUNT: ********21.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
34890	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	466.00		466.00

210506

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210506

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210506

PAY TO

HARDWARE SPECIALTY CO.
3419 - 11TH AVENUE, S.W.
SEATTLE, WA 98134

AMOUNT
*******466.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 39075

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	37.00		37.00

210525

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210525

24-12 / 1230 552

PAY TO
INTERMOUNTAIN INDUST.SUPPL
925 S.E. CLAY
PORTLAND, OREGON 97214

DATE: MARCH 01, 1988

CHECK NO.: 210525

AMOUNT: ********37.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
39130	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	109.00		109.00

210526

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210526

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210526

PAY TO
INTERNATIONAL PAINT CO.
5128 N. ALBINA
PORTLAND, OR 97217

AMOUNT
*******109.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
43865	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	611.00		611.00

210537

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210537

24-12 / 1230 552

PAY TO
KLEEN BLAST
3650 N. W. YEON
PORTLAND, OR 97210

DATE	CHECK NO.
MARCH 01, 1988	210537

AMOUNT
*******611.00*

Gilbert W. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
55427	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	5.00		5.00

210583

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210583

24-12 / 1230 552

PAY TO

NORTHWEST COPPER WORKS, IN
1303 N. RIVER
PORTLAND OREGON 97212

DATE	CHECK NO.
MARCH 01, 1988	210583

AMOUNT
*********5.00*

William H. Jain #
Gilbert M. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
55650	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	46.00		46.00

210584

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210584

24-12 / 1230 552

PAY TO
NORTHWEST TESTING LABORATO
P.O. BOX 17126
PORTLAND, OR 97217

DATE	CHECK NO.
MARCH 01, 1988	210584

AMOUNT
********46.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
55692	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	35.00		35.00

210585

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210585

24-12 / 1230 552

PAY TO
NORTON CHEMPLAST
P.O. BOX 468
KEARN, NJ 07032

DATE	CHECK NO.
MARCH 01, 1988	210585

AMOUNT
********35.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
56560	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	86.00		86.00

210588

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210588

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210588

PAY TO

OIL FILTER SERVICE CO.
615 SE MARKET ST.
PORTLAND, OR 97214

AMOUNT
********86.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 57002

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	2,438.00		2,438.00

210590

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210590

24-12 / 1230 552

PAY TO
OR & SW WASH PNTRS TF
PO BOX 12245
PORTLAND, OREGON 97212

DATE: MARCH 01, 1988

CHECK NO.: 210590

AMOUNT: *****2,438.00*

NOT NEGOTIABLE

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
62161	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	64.00		64.00

210615

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210615

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210615

PAY TO
PITTSBURG TESTING LAB DIV
611 S. E. HARRISON
PORTLAND, OR 97214

AMOUNT
********64.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

4/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
69635	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	8.00		8.00

210650

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210650

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210650

PAY TO

SEAPORT PETROLEUM
P.O. BOX 17171
PORTLAND, OREGON 97217

AMOUNT
*********8.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

4 / c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
70370	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	297.00		297.00

210653

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210653

24-12 / 1230 552

PAY TO

SHAVER TRANSPORT CO.
P.O. BOX 10324
PORTLAND, OREGON 97210

DATE	CHECK NO.
MARCH 01, 1988	210653

AMOUNT: *******297.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
70477	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	11.00		11.00

210656

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210656

24-12 / 1230 552

PAY TO
SHELL OIL CO.
P.O. BOX 80
TULSA, OK 74102

DATE	CHECK NO.
MARCH 01, 1988	210656

AMOUNT
********11.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
72630	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	5.00		5.00

210661

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210661

24-12 / 1230 552

PAY TO

STANDARD PARTS & EQUIP. CO
5251 S.E. MCLOUGHLIN BLVD.
PORTLAND, OREGON 97242

DATE	CHECK NO.
MARCH 01, 1988	210661

AMOUNT: *********5.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
74490	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	60.00		60.00

210669

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210669

24-12 / 1230 552

PAY TO
SYSTONETICS
1611 116TH AVE. N.E.
BELLEVUE, WA 98004

DATE	CHECK NO.
MARCH 01, 1988	210669

AMOUNT
********60.00*

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

4/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD, 5555 N. CHANNEL AVE., BLDG. 2, PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
74927	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	20.00		20.00

210672

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD, 5555 N. CHANNEL AVE., BLDG. 2, PORTLAND, OREGON 97217

210672

24-12 / 1230 552

PAY TO

TEK CHEMICAL CO.
3805 N. MISSISSIPPI
PORTLAND, OR 97227

DATE	CHECK NO.
MARCH 01, 1988	210672

AMOUNT
********20.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
77070	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	20.00		20.00

210675

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210675

24-12 / 1230 552

DATE	CHECK NO.
MARCH 01, 1988	210675

PAY TO

DON THOMAS PETROLEUM
2727 N. W. ST. HELENS RD.
PORTLAND, OR 97210

AMOUNT
********20.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

A/c 240

NWMAR130498

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
82440	3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	73.00		73.00

210695

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210695

24-12 / 1230 552

DATE	CHECK NO
MARCH 01, 1988	210695

PAY TO

WASTE MANAGEMENT OF OREGON
5330 N.E. SKYPORT WAY
PORTLAND, OREGON 97218

AMOUNT
********73.00*

Gilbert H. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6) [redacted]

A/C 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER: 83395

DATE: 3-01-88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
1986	3-01-88	11.00		11.00

210698

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109, PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

210698

24-12 / 1230 552

PAY TO
WESTCON, INC.
5101 N. INTERSTATE
PORTLAND, OR 97217

DATE: MARCH 01, 1988

CHECK NO.: 210698

AMOUNT: ********11.00*

Gilbert D. Miller

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

A/c 240

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

VENDOR NUMBER	DATE
62270-02	3/4/88

INVOICE NO.	INVOICE DATE	GROSS AMOUNT	DISCOUNT	NET AMOUNT
PRE PET PYMT	3/1/88			52,357.78

Acct 240
3/88 DD

215167

PLEASE DETACH BEFORE DEPOSITING

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109 PORTLAND, OR 97208

LOCATION: PORTLAND SHIP REPAIR YARD
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

215167

24-12 / 1230 552

PAY TO PORT OF PORTLAND

MAR 10 1988

DATE	CHECK NO.
March 4,1988	

AMOUNT
****$52,357.78****

The sum of $52357 and 78 cts NOT NEGOTIABLE

FIRST INTERSTATE BANK OF OREGON, N.A.
NW 29th & YEON BRANCH PORTLAND, OREGON

(b) (6)

NWMAR130501

Foot of 20th Street • P.O. Box 7644 • San Francisco • California • 94120
(415) 861-7447 • TWX: 910-372-0016 SWM SFO • FAX: (415) 558-8466

SOUTHWEST MARINE INC.

June 22, 1992
SWM#: A8598

VIA FACSIMILE (040) 36 26 91

Columbus Line (Owner)

c/o Zoepffel & Schneider GmbH (Agent)
Neuer Wall 46
2000 Hamburg 36

Attention: Mr. M. Schneider

Subject: M.V. COLUMBUS VIRGINIA

Reference: Northwest Marine Quotation Dtd March 5, 1992 (NWM Ref: 19-92)

Dear Mr. Schneider:

We are pleased to notify you that Southwest Marine, Inc. San Francisco Division will honor the above referenced Northwest Marine quotation for the Repair and Drydocking of the M.V. COLUMBUS VIRGINIA. We also offer the time and material rates of $35.00 Straight Time, $48.50 Overtime, and $52.50 Double Time for this vessel.

In order to confirm drydock availability we will require confirmation of this bid as soon as possible.

We thank you and look forward to working with you.

Any questions or concerns please do not hesitate in calling me.

Sincerely,

SOUTHWEST MARINE, INC.
San Francisco Division

Paul Gates
Commercial Accounts Manager

PG:ts

T E L E F A X T R A N S M I S S I O N

NUMBER OF PAGES INCL. THIS ONE

TO : SOUTH WEST MARINE, PORTLAND

ATT. : MR. PAUL GATES / GEORGE RIDDLE

DATE : 18/JUN/92 TIME : 15.00

Zoepffel & Schneider GmbH

Werftvertretungen
Industrievertretungen

Neuer Wall 46, 2000 Hamburg 36
Tel. (040) 36 27 51, Fax (040) 36 26 91
Telex 2 15 005 zogo d
privat: KAPT. M. SCHNEIDER, Tel. (0451) 4 31 86

GREETINGS FROM HAMBURG !

SUBJECT: "COLUMBUS VIRGINIA"
SUMMARY FROM OUR DISCUSSIONS WITH COLUMBUS LINE TODAY:

1. FINAL DISPOSITION OF THE WORK HAS NOT BEEN DETERMINED. THE NWM BID HAS APPARENTLY NOT BEEN TOTALLY EVALUATED AT THIS POINT.

2. BECAUSE OF POLITICAL REASONS, SOME OF THE WORK MAY BE PERFORMED IN AUSTRALIA. OF COURSE SOME SHIPS MAY BE WORKED IN OTHER PORTS DUE TO OPERATIONAL SCHEDULES; HOWEVER, SAN FRANCISCO IS AN IDEAL LOCATION TO PERFORM THE WORK. IN ANY CASE SCHEDULE OF THE DOCKINGS HAVE NOT BEEN DETERMINED.

3. A DEFINITIVE SCOPE OF WORK HAS NOT BEEN WRITTEN; THEREFORE, PRELIMINARY EVALUATIONS WILL BE PERFORMED USING THE UNIT PRICES IN THE SUBJECT BID.

4. COLUMBUS HAVE ASKED ME TO CONFIRM THAT THE PRICES IN THE SUBJECT BID ARE GOOD FOR SAN FRANCISCO. GEORGE - PLEASE SEND THE "COLUMBUS VIRGINIA" BID TO PAUL SO HE AND CARL CAN EVALUATE THE PRICES AND COMMIT TO THE PRICES FOR SAN FRANCISCO.

5. QUINTIN WATT WAS AT COLUMBUS LINE YESTERDAY AND IS CHASING THE WORK. I THINK THE ONLY WAY THAT WE CAN STAY IN THE RACE WITH A GOOD CHANCE OF WINIRY, IS TO CONFIRM THE PRICE FOR THE "COLUMBUS VIRGINIA", IS ACCEPTABLE FOR PORTLAND AND SAN FRANCISCO.

T E L E F A X T R A N S M I S S I O N

NUMBER OF PAGES INCL. THIS ONE 02

TO : SOUTH WEST MARINE, PORTLAND

ATT. : MR. PAUL GATES / GEORGE RIDOLLE

DATE : 18/JUN/92 TIME : 15.00

Zoepffel & Schneider GmbH

Werftvertretungen
Industrievertretungen

Neuer Wall 46, 2000 Hamburg 36
Tel. (040) 36 27 51, Fax (040) 36 26 91
Telex 2 15 005 zogo d
privat. KAPT. M. SCHNEIDER, Tel. (0451) 4 31 86

6. WE NEED TO ALSO CONFIRM THAT THE HOURLY RATES OFFERED TO BLUE STAR ARE ALSO OFFERED TO COLUMBUS. THIS IS A REDUCTION OF $ 3 FROM $ 38 TO 35/HOUR.

NOTE TO HOLLY - PLEASE SEND A COPY OF "COLUMBUS STAR" SPECIFICATION TO MANFRED SCHNEIDER. PLEASE SEND WITH DHL. I NEVER RECEIVED THE PACKAGE THAT WAS SENT TO GREECE.

KRGDS
BOB HUBBARD

SOUTHWEST MARINE
BID SUMMARY
VESSEL: COLUMBIA STAR

08-May-92

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
01	HULL EXAMINATION & SURVEY	0	NO CHARGE
02	RUDDER		
	A.	2,408	
	B.	829	
	C.	4,525	
	D.	897	
	E.	549	
	F.	3,806	
	G.	15,267	
	H.	562	
	I.	146	
	J.	592	
	K.	1,365	
	L.	432	
03	FULL TAILSHAFT SURVEY	43,132	
	1.6 MACHINING LINERS	213	
04	MODIFIED TAILSHAFT SURVEY	34,006	
05	SEA SUCTION & DISCHARGE VALVES	21,843	
06	P/S ANCHORS & ANCHOR CHAINS		
	A.	9,275	
	B.	10,388	
07	WATER BALLAST TANKS & FRESH WATER TANKS	30,466	
08	MAIN ENGINE TIE RODS	11,934	
09	MAIN ENGINE TURBO CHARGERS	13,224	
10	MAIN ENGINE CHARGE AIR COOLERS	5,027	
11	AUXILIARY MAIN ENGINE BLOWERS	3,139	
12	MAIN ENGINE EXHAUST TRUNKING	23,091	
13	P/S ENGINE ROOM VENT FAN INTAKES	29,070	
14	MAIN ENGINE CHARGE AIR COOLERS	4,840	
15	H.O. SETTLING TANK	23,499	
16	BRINE HEADER TANKS	15,369	
17	EXHAUST GAS BOILER	21,116	
18	SPARE MAIN ENGINE LINER	1,904	
19	MAIN ENGINE	20,826	
20	STEERING GEAR	5,172	
21	MAIN ENGINE INNER/OUTER FUEL OIL HEATERS	8,820	
22	FRESH WATER GENERATOR	9,635	
23	HATCH LID & HATCH COAMING WEAR DOWN PADS	156,055	
24	HATCH LID RE-RUBBERING	59,532	
25		11,622	
26	HATCH LIDS	7,962	
27	NO. 1 HATCH LIDS	10,034	
28	RADIO AERIAL BRACKETS P/S	6,346	
29	CO2 ALARM BOX FOR ENGINE ROOM	1,447	
30	STBD STORES CRANE	3,052	
31	FAIRLEADS	3,895	
32	HATCH LID FWD/AFT	16,612	
33	P/S WINDLASS	6,261	

SOUTHWEST MARINE
BID SUMMARY **08-May-92**
VESSEL: **COLUMBIA STAR**

OWNER: **BLUE STAR SHIP MANAGMENT**

ITEM	TITLE	PRICE	NOTES
34	NO. 2 & 4 HAGGLUNDS CARGO CRANES	6,606	
35	SCHMERSAL PASSENGER LIFT	2,697	
36	WATER BALLAST TANKS	21,383	
37	P/S ENGINE ROOM SUPPLY FAN MOTORS	10,021	
38	NO. 2 & 4 HAGGLUNDS SLEWING CRANES		
	A.	542	
	B.	1,094	
	C.	407	
	D.	1,646	
	E.	291	
	F.	339	
	G.	542	
	H.	7,395	
	I.	592	
	J.	2,333	
39	NO. 2 & 4 HAGGLUNDS SLEWING CRANES	6,292	
40	CARGO SPREADERS	4,516	
41	BERTHING	7,636	
42	DRYDOCKING	46,883	
43	SHORE POWER CONNECT/DISCONNECT	813	
	UNIT PER KWH	0.10	
44	CIRCULATING WATER	813	
45	CHEMIST & GAS FREEING	4,383	
46	REFUSE	1,816	
47	CRANAGE STORES/SPARES	136	
48	TEMPORARY LIGHTING	4,316	
49	GANGWAYS	1,084	
50	FIRE LINES	828	
51	CRANAGE	54,208	
52	CLEAN CONTRACTORS WORK AREAS	5,079	
53	STAGING TO RIG, MAINTAIN & DISMANTLE FOR REPAIR WORK	78	
54	LAGGING DISTURBED OR BROKEN DURING REPAIR	0	INCLUDED
55	ANY O.F. PUMPED OUT STORED IN CLEAN CONTAINERS	0.35	PER GAL
56	TANK LIDS & HATCHES REMOVED & REPLACED IN GOOD ORDER	0	INCLUDED
57	FRESH WATER	828	
58	FIRE PATROL	6,000	
59	MOORINGS	813	
60	TEMPORARY VENTILATION	2,418	
61	PAINTING	0	INCLUDED
62	TELEPHONES	777	
63	COMPRESSED AIR	823	
64	BALLAST	1,541	
65	DOCKING PLUGS	1,091	
66	SEA SUCTION & DISCHARGE BOXES	3,731	
67	HULL CATHODIC PROTECTION	4,620	
68	PROPELLER PARTICULARS		
	A.	14,500	
	B.i.	10,000	
	ii.	2,500	

SOUTHWEST MARINE
BID SUMMARY **08-May-92**
VESSEL: **COLUMBIA STAR**

OWNER: **BLUE STAR SHIP MANAGMENT**

ITEM	TITLE	PRICE	NOTES
69	HULL PREPARATION & PAINTING		
	4.1. WATER WASH	13,483	
	4.2.	118,410	
	4.3.	7,912	
	4.4	56,350	
	4.5	16,308	
	4.6	150,226	
	4.7	9,979	
	4.8	0	INFORMATIO
	4.9 UNDERWATER AREA	0	
	FLAT BOTTOM	13,737	
	VERTICAL SIDES INCL. BOOTTOP	24,240	
	VERTICAL SIDES LESS BOOTTOP	19,780	
	BOOTTOP	935	
	4.10 TOPSIDE AREA	4,242	
	5.0 PAINT LINES	0	INCLUDED
	5.1 INJECTION BOXES	0	INCLUDED
	5.2 DRAFT MARKS, ETC.	2,489	
70		87,444	
71	P/S BALLAST TANKS	10,656	
72		11,802	
73	BRINE PIPE REPAIRS	5,389	
74		3,106	
75	DAMAGED INSULATION IN REEFER HOLDS	19,056	
76	CONTAINER CELL GUIDES & BRACKETS	4,463	
77	DAMAGED SHELL PLATING & INTERNALS PORT SIDE	32,854	
78	DECK CRANE	9,178	
79	SHIPS NAME P & S BOW	15,408	
	TOTAL	1,542,043	
	UNIT PRICES		
1			
2	RENEWAL OF HOLD TANK TOP	1,271	
3	RNEWAL OF SHIPSIDE INSULATION	963	
4	A.	504	
	B.	798	
	C.	1,176	
5	TANK CLEANING FOR REPAIR WORK DO TANK/PER TON	42	
6	TANK CLEANING FOR REPAIR WORK BALLAST TANK/PER TON	31	
7	A. TANK CLEANING FOR REPAIR WORK BALLAST TANK/PER TON	31	
	B. TANK CLEANING FOR REPAIR WORK FRESH WATER/PER TON	22	
	C. REMOVE/DISPOSE OILY WATER PER TON	39	
	D. REMOVE/DISPOSE OIL PER TON	39	
	E. REMOVE/DISPOSE OIL/SLUDGE PER TON	2,050	
8	RENEWAL OF STEEL WORK		
	A. SHELL/PER KG W/O STAGING	18	
	B. STAGING	266	

SOUTHWEST MARINE
BID SUMMARY
VESSEL: COLUMBIA STAR

08-May-92

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
	C. INTERNALS/PER KG W/O STAGING	18	
9	RENEWAL OF PIPEWORK		
	25MM	75	
	50MM	168	
	75MM	187	
	120MM	228	
	150MM	269	
	180MM	310	
10	RENEWAL OF STEEL PIPES		
	50MM	124	
	100MM	278	
	150MM	471	
	200MM	783	
	250MM BORE	1,002	
11	RENEWAL OF YORCALBRO PIPE (PER METRE)		
	50MM	155	
	100MM	274	
	150MM	519	
	200MM	817	
	250MM BORE	1,188	
12	PER M2 FOR MECHANICALLY SCALING W/PRIMER COAT		
	A. SHELL UNDERWATER AREA W/O STAGING	16.17	
	B. SHELL UNDERWATER AREA WITH STAGING	30.95	
	C. SHELL TOPSIDE AREA WITH STAGING	36.87	
	D. DECK - MAIN DECK/FORECASTLE DECK PLATING	22.47	
13	PER M2 FOR SHOT BLASTING TO 2.5 SA W/ETCHING COAT		
	A. SHELL UNDERWATER AREA W/O STAGING	22.06	
	B. SHELL UNDERWATER AREA WITH STAGING	36.85	
	C. SHELL TOPSIDE AREA WITH STAGING	42.76	
	D. DECK - MAIN DECK/FORECASTLE DECK PLATING	31.51	
14	PER M2 FOR SAND SWEEPING		
	A. SHELL UNDERWATER AREA W/O STAGING	3.96	
	B. SHELL UNDERWATER AREA WITH STAGING	6.92	
	C. SHELL TOPSIDE AREA WITH STAGING	8.11	
15	PER M2 FOR COATING ONLY		
	A. SHELL UNDERWATER AREA W/O STAGING (PER COAT)	1.94	
	B. SHELL UNDERWATER AREA WITH STAGING (PER COAT)	4.90	
	C. SHELL TOPSIDE AREA WITH STAGING (PER COAT)	6.09	
16	A. OPEN UP/CLEAN/RE-RING PISTON & CLOSE	2,605	
	B. STRIP PISTON/FIT OWNERS NEW CROWN/BUILD UP/PRESSURE T	1,132	
	C. ME LINER TO DRAW/FIT OWNERS NEW O RINGS & REFIT LINER	814	
17	LABOR RATES		
	1.SKILLED RATE PER HR		
	DAY WORK	35.00	
	OVERTIME	48.50	
	DOUBLETIME	52.50	
	2.SEMI-SKILLED RATE PER HR		
	DAY WORK	35.00	
	OVERTIME	48.50	

SOUTHWEST MARINE
BID SUMMARY 08-May-92
VESSEL: COLUMBIA STAR

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
	DOUBLETIME	52.50	
	3.UNSKILLED RATE PER HR		
	DAY WORK	35.00	
	OVERTIME	48.50	
	DOUBLETIME	52.50	

20/5/92

FACSIMILE MESSAGE

SHIP REPAIRERS & SHIPBUILDERS LTD
45/46 LOWER MARSH - LONDON SE1 7RG

To: BOB HUBBARD

Tel: 071 928 5265/4302

Fax: 071 928 5346

Tlx: 918828 SRS G

Of: S.W. MARINE - PORTLAND

Subject: M/V EXCEL

Pages: ONE

YOUR GRAPEVINE CORRECT ALTHOUGH JOB DONE IN VICTORIA - TURNED OUT TO BE RUSH JOB AS LEAK DEVELOPED IN ONE OFF THE TANKS. - APPARENTLY WERE ASKED TO QUOTE FOR WHOLE JOB CHANGING PUMPS ETC AND THEY GAVE A PRICE 40% CHEAPER THAN PRICES RECIEVED FROM OTHERS PREVIOUSLY ASKED.

FINAL PRICE DIDN'T COME OUT AS QUOTED BUT STILL APPARENTLY 10-15% CHEAPER THAN ORIGINAL QUOTES.

SHIP IS AGAIN IN TROUBLE - STERN TUBE NEEDS RE-BUSHING - VSL DUE SAN. FRISCO EARLY JUNE AGAIN EARLY AUG. WOULD YARD BE ALLOWED TO D/D CONSIDERING THERE WOULD BE APPROX 20TONS AMMONIA IN ONE SLOP TANK AND OF COURSE THERE WOULD BE CARGO VAPOUR

PLEASE ADVISE

Regards.

Signed: IAN ~~MORRISON~~ / HENDERSON

Date: 20/5/92

20/5/92

FACSIMILE MESSAGE

SHIP REPAIRERS & SHIPBUILDERS LTD
45/46 LOWER MARSH - LONDON SE1 7RG

To: Bob Hubbard

Of: S.W. Marine - Portland

Subject: Columbia Star Contd.

Tel: 071 928 5265/4302

Fax: 071 928 5346

Tlx: 918828 SRS G

Pages: Two of Two

20/05 '92 12:34 ☎ 014074624 BSSM LTD 01

BLUE STAR SHIP MANAGEMENT LTD

ALBION HOUSE, 20 QUEEN ELIZABETH ST.,
LONDON SE1 2LS TEL: 071-407 2345
TELEX: 8956546 TELEFAX: 071-407 4624

TELEFAX

TO: Ship Repairers & Ship Builders

FAX No. 071 928 5346

ATT: Mr J Morrison/Henderson

DATE 20 May 1992

FROM: F P Willcock

NO. PAGES One

Re Columbia Star Drydocking.

Would you please forward following message to South West Marine - San Francisco.

Please be advised that Mr M MacKenzie, Supt. Engineer and Mr F P Willcock, Commercial Manager will be arriving San Francisco 16.10 hrs on 26th May 92, flight No. C016 from Sydney Australia with view to visiting your yard and discussing specification etc. together with your Tender on Wednesday 27th May 92.

Please confirm with names etc. if foregoing arrangements are suitable.

Would appreciate if bar chart of work programme be prepared for visit. Also confirm drydock availability mid July 92.

Regards

Willcock

BOB: THE SUPT "MACKENZIE" IS A HIGHLAND SCOT AND PEOPLE MAY FIND IT DIFFICULT TO UNDERSTAND HIM.

NWMAR130511

FACSIMILE MESSAGE

SHIP REPAIRERS & SHIPBUILDERS LTD
45/46 LOWER MARSH - LONDON SE1 7RG

To: BOB HUBBARD

Tel: 071 928 5265/4302

Fax: 071 928 5346

Of: S.W. MARINE - PORTLAND

Tlx: 918828 SRS G

Subject: COLUMBIA STAR DRY DOCKING

Pages: ONE OF TWO

BOB:

HAVE SPOKEN WITH PAUL WILCOCK AND INFORMED HIM THAT WE COULD REDUCE PRICES BY AROUND £5,000 AND HE WOULD LIKE IT SHOWN AS NEW PRICES NOT NETT REDUCTION - MUST HAVE PRICES BY MID-DAY 21ST.

ATTACHED IS COPY OF FAX GIVING HIS ITINERY, NOTE HE IS ASKING FOR THE NAMES WHO WILL ATTEND (THE HIGHER UP THE POSITION HELD - THE BETTER!) WOULD WORK WONDERS IF ENGEL JUST POPPED IN - THEY MET IN LONDON.

PAUL IS A GREAT MAN FOR BAR CHARTS SO I TRUST ONE CAN BE PREPARED - HE STILL RECKONS THE PAINT JOB CANNOT BE DONE IN FIVE DAYS SO THIS WILL COME UP IN DISCUSSION.

YOUR OPPOSITION IS TODD'S IN SEATTLE - (VANC. IS OUT) AND AN AUSTRALIAN YARD WHO ARE THE CHEAPEST

IMPRESS UPON CARL THAT PAUL WILCOCK IS A HARD NEGOTIATOR BUT ONCE SOMETHING IS AGREED HE STANDS BY IT. - ALSO ALTHOUGH YOU REDUCE NOW HE WILL STILL BARGAIN FOR MORE AROUND THE TABLE.

Signed: Ian Henderson

IAN ~~MORRISON~~ / HENDERSON

Date: 20/5/92

P.S. THE REASON THE PRICES BY THE 21ST MID DAY - THEY ARE FLYING TO AUSTRALIA AT 18,00 HRS.

COLUMBIA STAR.

ITEMS IN DISCUSSION. ALL PRICES US. $.

ITEM.			
	02 C.	2000	HIGH.
	02 F.	1000	HIGH.
	02 G	5000	HIGH
	02 L	250	HIGH.
	13	10,000	HIGH.
	15	5,000	HIGH.
	17	20,000	LOW.
	23	30,000	HIGH.
	24	10,000	HIGH
	26	6,000	LOW.
	29	700	HIGH.
	32.	12000	LOW.
	33.	8,000	LOW.
	38. A	100	LOW.
	38 B.	400	LOW
	38 C	400	LOW.
	38 D	1000	LOW
	38 E	100	LOW.
	38 F	400	LOW
	38 G	500	LOW
	38 H	5000	LOW
	38 . I.	500	LOW

HAVE YOU QUOTED FOR 2 CRANES.

43. TODD'S NO CHARGE.

51. THIS IS NORMALLY INCLUDED IN REPAIR COSTS.

60. NORMALLY IN REPAIR COSTS.

68 a. 6000 HIGH.

70 10,000 HIGH.

72. 5,000 HIGH.

A DIVISION OF SOUTHWEST MARINE, INC.
P.O. Box 3109 • Portland • Oregon • 97208 • 5555 N. Channel Ave. • Bldg 2 • Portland • Oregon • 97217
(503) 285-7557 • TWX: 910-464-6107 NORMARINE PTL • FAX: (503) 240-6600

SOUTHWEST MARINE INC.

TELECOPIER COVER LETTER

TELEFAX NO. 011 44 71 928 5346 DATE May 15, 1992

MESSAGE SENT TO (RECIPIENT'S NAME) Ian Morrison

AT (COMPANY) Ship Repairers & Shipbuilders, Ltd., London

SENDER'S NAME Bob Hubbard

NUMBER OF PAGES (INCLUDING COVER SHEET) 1

REFERENCE (IF APPLICABLE)

FAXED BY Rlf
DATE 5/15/92
TIME 1310

.....

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL (503) 285-7557 EXT 610.

OUR TELEFAX NUMBER IS (503) 240 6272.

.....

Ian,

Carl is on vacation today so I won't be able to get a reading on the price for the Columbus Star until Monday; however, I have reviewed the specifications and propose that we stay with 5 days in dock. If the ship stays some extra time, without a change in the scope of work, we may have to give them the two extra lay days. We don't want to add costs to the bid at this stage. Of course if the scope of work increases, causing more time in the dock, then I would expect them to pay the extra lay days.

Please be advised that the bid is at $30. per hour, so I doubt if we can move much without a reduction of work. Also remember that the estimate was done without a ship check. Hopefully as more is learned about the job while on board the vessel and talking to the Chief, we can lower the price. Of course it can go the other way, but normally the estimators put some factor in the price for unknowns. It is always easier to come down in price than go up.

Bob

A DIVISION OF SOUTHWEST MARINE, INC.
P.O. Box 3109 • Portland • Oregon • 97208 • 5555 N. Channel Ave. • Bldg 2 • Portland • Oregon • 97217
(503) 285-7557 • TWX: 910-464-6107 NORMARINE PTL • FAX: (503) 240-6600

SOUTHWEST MARINE INC.

11 May 1992

Via Telefax
71-4074624

Blue Star Ship Management Ltd.
Albion House
20 Queen Elizabeth Street
London SEI 2LS

Attention: Mr. F.P. Willcock

Regarding: M.V. Columbia Star

Gentlemen,

To clarify and correct our quotation submitted Monday, please make the following changes. The bid submitted is for our facility in San Francisco and the prices are U.S. dollars. Please change the total time required in our quotation to nineteen(19) vice twenty-four(24). The nineteen(19) days includes five(5) days in drydock and is straight time only. The total time can be compressed to fifteen(15) days if the price is adjusted to include weekend overtime.

The following prices were omitted from our quotation; however, the total does not change:

Item 43	Unit price per KWH	$	0.10
Item 69	Flat bottom		13,737.00
	Vertical sides and boottop		24,240.00
	Vertical sides less boottop		19,780.00
	Boottop		935.00

Sincerely,

Robert C. Hubbard
Vice President
Business Development

RCH/hrh

P.O. Box 3109 • Portland • Oregon • 97208 • 5555 N. Channel Ave. • Bldg 2 • Portland • Oregon • 97217
(503) 285-7557 • TWX: 910-464-6107 NORMARINE PTL • FAX: (503) 240-6600

SOUTHWEST MARINE INC.

TELECOPIER COVER LETTER

TELEFAX NO. _____ DATE 5/10/92

MESSAGE SENT TO (RECIPIENT'S NAME) IAN MORRISON

AT(COMPANY) SRS

SENDER'S NAME BOB HUBBARD

NUMBER OF PAGES (INCLUDING COVER SHEET) 9

REFERENCE(IF APPLICABLE) M.V. "COLUMBIA STAR"

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL (503) 285-7557 EXT 610.

OUR TELEFAX NUMBER IS (503) 240 6272.

IAN -

ATTACHED SENT DIRECTLY TO BLUE STAR TODAY. HOPE YOU CAN READ EVERYTHING.

I'LL CALL TOMORROW P.M.

Bob

A DIVISION OF SOUTHWEST MARINE, INC.
P.O. Box 3109 • Portland • Oregon • 97208 • 5555 N. Channel Ave. • Bldg 2 • Portland • Oregon • 97217
(503) 285-7557 • TWX: 910-464-6107 NORMARINE PTL • FAX: (503) 240-6600

SOUTHWEST MARINE INC.

May 10, 1992

Via telefax 71-4074624

Blue Star Ship Management Ltd.
Albion House
20 Queen Elizabeth St.
London SE1 2LS

Attention: Mr. F. P. Willcock

M.V. "COLUMBIA STAR"

Gentlemen,

Enclosed please find Southwest Marine's itemized quotation for the drydocking and repair of the "Columbia Star." Our estimate for the total time required in running/calendar days is twenty-four. This total time includes five days in the drydock. Along with our prices for specific repair items, we have included unit prices according to your specification. A separate list of bid notes is included to clarify some of the assumptions made in the quotation. Please note that we have not had the opportunity to view the actual repair items; therefore, an adjustment to our prices may be necessary after boarding the vessel for a ship check.

Thank you very much for the opportunity to submit this quotation. We can assure you that if we are awarded the work, we will perform to our high standard of quality and timeliness.

Respectfully yours,

R. C. Hubbard
Vice President

M/V COLUMBIA STAR

BID NOTES

The following bid notes are included as explanation of certain individual item pricing, as noted.

Item	Description
08	Main Engine Tie Rods Owner to provide Tensioning equipment.
09	Main Engine Turbo Chargers Allowance for machining and fitting one (1) Owner furnished shroud ring.
15	H.O. Settling Tank No allowance for temporary power to circuits disturbed by removal and refit of switchboard panels. Steel repairs to be priced when identified.
23	Hatch Lid and Hatch Coaming Wear Down Pads Insulation renewal, if required, not included.
36	Ballast Water Tank Cleaning Staging not included.
70	Shell Plate Damage Repair of riveted seams not included.
- -	Unit Prices
- -	Staging not included, except as indicated under #8.
- -	Shaped plate not included.
- -	Asbestos removal not included.
- -	Unit prices based upon minimum of one (1) meter per location.
- -	Except where quantity is otherwise specifically identified.

SOUTHWEST MARINE
BID SUMMARY
VESSEL: COLUMBIA STAR

08-May-92

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
01	HULL EXAMINATION & SURVEY	0	NO CHARGE
02	RUDDER		
	A.	2,408	
	B.	829	
	C.	4,525	
	D.	897	
	E.	549	
	F.	3,806	
	G.	15,267	
	H.	562	
	I.	146	
	J.	592	
	K.	1,365	
	L.	432	
03	FULL TAILSHAFT SURVEY	43,132	
	1.6 MACHINING LINERS	213	
04	MODIFIED TAILSHAFT SURVEY	34,006	
05	SEA SUCTION & DISCHARGE VALVES	21,843	
06	P/S ANCHORS & ANCHOR CHAINS		
	A.	9,275	
	B.	10,388	
07	WATER BALLAST TANKS & FRESH WATER TANKS	30,466	
08	MAIN ENGINE TIE RODS	11,934	
09	MAIN ENGINE TURBO CHARGERS	13,224	
10	MAIN ENGINE CHARGE AIR COOLERS	5,027	
11	AUXILIARY MAIN ENGINE BLOWERS	3,139	
12	MAIN ENGINE EXHAUST TRUNKING	23,091	
13	P/S ENGINE ROOM VENT FAN INTAKES	29,070	
14	MAIN ENGINE CHARGE AIR COOLERS	4,840	
15	H.O. SETTLING TANK	23,499	
16	BRINE HEADER TANKS	15,369	
17	EXHAUST GAS BOILER	21,116	
18	SPARE MAIN ENGINE LINER	1,904	
19	MAIN ENGINE	20,826	
20	STEERING GEAR	5,172	
21	MAIN ENGINE INNER/OUTER FUEL OIL HEATERS	8,820	
22	FRESH WATER GENERATOR	9,635	
23	HATCH LID & HATCH COAMING WEAR DOWN PADS	156,055	
24	HATCH LID RE-RUBBERING	59,532	
25		11,622	
26	HATCH LIDS	7,962	
27	NO. 1 HATCH LIDS	10,034	
28	RADIO AERIAL BRACKETS P/S	6,346	
29	CO2 ALARM BOX FOR ENGINE ROOM	1,447	
30	STBD STORES CRANE	3,052	
31	FAIRLEADS	3,895	
32	HATCH LID FWD/AFT	16,612	
33	P/S WINDLASS	6,261	

SOUTHWEST MARINE
BID SUMMARY
VESSEL: COLUMBIA STAR

08-May-92

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
34	NO. 2 & 4 HAGGLUNDS CARGO CRANES	6,606	
35	SCHMERSAL PASSENGER LIFT	2,697	
36	WATER BALLAST TANKS	21,383	
37	P/S ENGINE ROOM SUPPLY FAN MOTORS	10,021	
38	NO. 2 & 4 HAGGLUNDS SLEWING CRANES		
	A.	542	
	B.	1,094	
	C.	407	
	D.	1,646	
	E.	291	
	F.	339	
	G.	542	
	H.	7,395	
	I.	592	
	J.	2,333	
39	NO. 2 & 4 HAGGLUNDS SLEWING CRANES	6,292	
40	CARGO SPREADERS	4,516	
41	BERTHING	7,636	
42	DRYDOCKING	46,883	
43	SHORE POWER CONNECT/DISCONNECT	813	
	UNIT PER KWH		
44	CIRCULATING WATER	813	
45	CHEMIST & GAS FREEING	4,383	
46	REFUSE	1,816	
47	CRANAGE STORES/SPARES	136	
48	TEMPORARY LIGHTING	4,316	
49	GANGWAYS	1,084	
50	FIRE LINES	828	
51	CRANAGE	54,208	
52	CLEAN CONTRACTORS WORK AREAS	5,079	
53	STAGING TO RIG, MAINTAIN & DISMANTLE FOR REPAIR WORK	78	
54	LAGGING DISTURBED OR BROKEN DURING REPAIR	0	INCLUDED
55	ANY O.F. PUMPED OUT STORED IN CLEAN CONTAINERS	0.35	PER GAL
56	TANK LIDS & HATCHES REMOVED & REPLACED IN GOOD ORDER	0	INCLUDED
57	FRESH WATER	828	
58	FIRE PATROL	6,000	
59	MOORINGS	813	
60	TEMPORARY VENTILATION	2,418	
61	PAINTING	0	INCLUDED
62	TELEPHONES	777	
63	COMPRESSED AIR	823	
64	BALLAST	1,541	
65	DOCKING PLUGS	1,091	
66	SEA SUCTION & DISCHARGE BOXES	3,731	
67	HULL CATHODIC PROTECTION	4,620	
68	PROPELLER PARTICULARS		
	A.	14,500	
	B.i.	10,000	
	ii.	2,500	

SOUTHWEST MARINE
BID SUMMARY
VESSEL: COLUMBIA STAR

08-May-92

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
69	HULL PREPARATION & PAINTING		
	4.1. WATER WASH	13,483	
	4.2.	118,410	
	4.3.	7,912	
	4.4	56,350	
	4.5	16,308	
	4.6	150,226	
	4.7	9,979	
	4.8	0	INFORMATIO
	4.9 UNDERWATER AREA	0	
	FLAT BOTTOM		
	VERTICAL SIDES INCL. BOOTTOP		
	VERTICAL SIDES LESS BOOTTOP		
	BOOTTOP		
	4.10 TOPSIDE AREA	4,242	
	5.0 PAINT LINES	0	INCLUDED
	5.1 INJECTION BOXES	0	INCLUDED
	5.2 DRAFT MARKS, ETC.	2,489	
70		87,444	
71	P/S BALLAST TANKS	10,656	
72		11,802	
73	BRINE PIPE REPAIRS	5,389	
74		3,106	
75	DAMAGED INSULATION IN REEFER HOLDS	19,056	
76	CONTAINER CELL GUIDES & BRACKETS	4,463	
77	DAMAGED SHELL PLATING & INTERNALS PORT SIDE	32,854	
78	DECK CRANE	9,178	
79	SHIPS NAME P & S BOW	15,408	
	TOTAL	1,542,043	
	UNIT PRICES		
1			
2	RENEWAL OF HOLD TANK TOP	1,271	
3	RNEWAL OF SHIPSIDE INSULATION	963	
4	A.	504	
	B.	798	
	C.	1,176	
5	TANK CLEANING FOR REPAIR WORK DO TANK/PER TON	42	
6	TANK CLEANING FOR REPAIR WORK BALLAST TANK/PER TON	31	
7	A. TANK CLEANING FOR REPAIR WORK BALLAST TANK/PER TON	31	
	B. TANK CLEANING FOR REPAIR WORK FRESH WATER/PER TON	22	
	C. REMOVE/DISPOSE OILY WATER PER TON	39	
	D. REMOVE/DISPOSE OIL PER TON	39	
	E. REMOVE/DISPOSE OIL/SLUDGE PER TON	2,050	
8	RENEWAL OF STEEL WORK		
	A. SHELL/PER KG W/O STAGING	18	
	B. STAGING	266	

SOUTHWEST MARINE
BID SUMMARY 08-May-92
VESSEL: COLUMBIA STAR

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
	C. INTERNALS/PER KG W/O STAGING	18	
9	RENEWAL OF PIPEWORK		
	25MM	75	
	50MM	168	
	75MM	187	
	120MM	228	
	150MM	269	
	180MM	310	
10	RENEWAL OF STEEL PIPES		
	50MM	124	
	100MM	278	
	150MM	471	
	200MM	783	
	250MM BORE	1,002	
11	RENEWAL OF YORCALBRO PIPE (PER METRE)		
	50MM	155	
	100MM	274	
	150MM	519	
	200MM	817	
	250MM BORE	1,188	
12	PER M2 FOR MECHANICALLY SCALING W/PRIMER COAT		
	A. SHELL UNDERWATER AREA W/O STAGING	16.17	
	B. SHELL UNDERWATER AREA WITH STAGING	30.95	
	C. SHELL TOPSIDE AREA WITH STAGING	36.87	
	D. DECK - MAIN DECK/FORECASTLE DECK PLATING	22.47	
13	PER M2 FOR SHOT BLASTING TO 2.5 SA W/ETCHING COAT		
	A. SHELL UNDERWATER AREA W/O STAGING	22.06	
	B. SHELL UNDERWATER AREA WITH STAGING	36.85	
	C. SHELL TOPSIDE AREA WITH STAGING	42.76	
	D. DECK - MAIN DECK/FORECASTLE DECK PLATING	31.51	
14	PER M2 FOR SAND SWEEPING		
	A. SHELL UNDERWATER AREA W/O STAGING	3.96	
	B. SHELL UNDERWATER AREA WITH STAGING	6.92	
	C. SHELL TOPSIDE AREA WITH STAGING	8.11	
15	PER M2 FOR COATING ONLY		
	A. SHELL UNDERWATER AREA W/O STAGING (PER COAT)	1.94	
	B. SHELL UNDERWATER AREA WITH STAGING (PER COAT)	4.90	
	C. SHELL TOPSIDE AREA WITH STAGING (PER COAT)	6.09	
16	A. OPEN UP/CLEAN/RE-RING PISTON & CLOSE	2,605	
	B. STRIP PISTON/FIT OWNERS NEW CROWN/BUILD UP/PRESSURE T	1,132	
	C. ME LINER TO DRAW/FIT OWNERS NEW O RINGS & REFIT LINER	814	
17	LABOR RATES		
	1.SKILLED RATE PER HR		
	DAY WORK	35.00	
	OVERTIME	48.50	
	DOUBLETIME	52.50	
	2.SEMI-SKILLED RATE PER HR		
	DAY WORK	35.00	
	OVERTIME	48.50	

SOUTHWEST MARINE
BID SUMMARY
VESSEL: COLUMBIA STAR

08-May-92

OWNER: BLUE STAR SHIP MANAGMENT

ITEM	TITLE	PRICE	NOTES
	DOUBLETIME	52.50	
	3.UNSKILLED RATE PER HR		
	DAY WORK	35.00	
	OVERTIME	48.50	
	DOUBLETIME	52.50	

FACSIMILE MESSAGE

To: ART ENGEL
Of: SOUTH WEST MARINE

Date: 9th April 1992

Fm: IAN MORRISON
Of: SHIP REPAIRERS & SHIPBUILDERS LTD

Tel: 071-928-4302
Fax: 071-928-5346

Ref: "COLUMBIA STAR"

DEAR ART

YOU WILL RECALL DURING YOUR VISIT TO LONDON WE PAID A VISIT TO BLUE STAR LINES WHERE THEY SAID THEY WOULD HAVE SEVERAL DOCKINGS FOR 1992.

YESTERDAY WE HAD A MEETING WITH BLUE STAR AND THEY GAVE US SPECS FOR SAN FRANCISCO AND PORTLAND AND THESE WERE SENT TO PORTLAND YESTERDAY BY COURIER.

THIS VESSEL IS THE EX "ACT X" - A LARGE CONTAINER VESSEL - AND COMPETITION WILL BE ON THE US WEST COAST VANCOUVER AND CASCADE AS WELL AS SINGAPORE AREA AND AUSTRALIA. SINGAPORE WILL BE A DEVIATION BUT AUSTRALIA IS A TERMINAL PORT AREA.

THEY ASKED ME TO CONTACT YOU WITH REFERENCE TO OUR MEETING IN JANUARY AND TO MAKE SURE THAT YOUR YARDS PUT IN THEIR BEST PRICE AND TIME FOR THIS WORK.

MANY THANKS FOR YOUR HELP.

REGARDS

W I MORRISON
Managing Director

08-May-92 BID #: 63-92 BID DATE: 11 APR 92

REVENUE/EXPENSES ETA: JULY/AUG 92 VESSEL: M/V COLUMBIA STAR

DAYS BID : 15

REV. #: 01 SWM - SF BASIC BID

		EST.	RATE	$	NOTES
	REVENUES:				
1	BASIC EST.HRS. S.T	33,168	31.000	1,028,208	
2	BASIC EST.HRS. O.T	4,975	12.000	59,702	ALLOWED 10% OT
3	SWM DD,LH HRS.S.T.	190	31.000	5,890	
4	SWM DD,LH HRS.O.T.	0	12.000	0	
5	SWM C/O HRS. S.T.	400	31.000	12,400	
6	SWM C/O HRS. O.T.	0	12.000	0	
7	MATERIALS: BASIC	160,428	1.000	160,428	NO BERTHAGE CHARGE INCLUDED
8	MATERIALS: SWM D/D	1,000	1.000	1,000	
9	SUBCONTRACTORS:	208,523	1.000	208,523	
10	OTHER: 2-1/2% FEE	37,613	1.000	37,613	AGENT FEE
11	POP ELECT.TARIFF				
12	POP STEAM TARIFF				
13	POP CRANE TARIFF				
14	POP OTHER TARIFF				
15	SWM ELECT.	0	1.000	0	
16	SWM STEAM	0	1.000	0	
17	SWM CRANE COST	0	1.000	0	
18	SWM OTHER FAC.COST	28,371	1.000	28,371	
19	POP USE FEE				FOR PORTLAND ONLY
				0	
	TOTAL REVENUES: CALC			1,542,135	
	TOTAL REVENUES: BID			1,542,135	
	DIRECT EXPENSES:				
1	BASIC LABOR S.T.	33,168	16.000	530,688	
2	BASIC LABOR O.T.	4,975	9.800	48,757	
3,5	SWM UNIQUE LAB.S.T	590	16.000	9,440	
4,6	SWM UNIQUE LAB.O.T	0	9.800	0	
7>10	MATL,SUBC,OTHER			407,564	
11>14	POP TARIFF, ALL				
15>18	SWM FAC.COST, ALL			0	
19	P.O.P. USE FEE:				
	TOTAL EXPENSES: RATES		1/92	996,449	
	GROSS CONTRIBUTION:			545,686	
1	VARIABLE O/H BASIC	33,168	12.360	409,956	
3,5	VARIABLE O/H SWM	590	12.360	7,292	
	NET CONTRIBUTION:	33,758		128,438	
	HRS/RECOV.BID RATE:	33,758		32.16	

POP/SWM FAC.PER HR. 0.00

MEN PER DAY..8 HR.SHIFTS 281

MEN PER DAY.10 HR.SHIFTS 225

DRYDOCK: NO___ YES_X_ DAYS_5_

BONDING: NO_X_ YES___ $_____

DEMURRAGE: NO X YES $ / DAY

NWMAR130525

ALBION HOUSE, 20 QUEEN ELIZABETH ST., LONDON SE1 2LS TEL: 071-407 2345 TELEX: 8956546 TELFAX: 071-407 4624

FPW/dms

7th April 1992

Southwest/Northwest Marine Ltd.
c/o Ship REpairers and Shipbuilders
45-46 Lower Marsh
London SE1 7RG.

415-928-2026 SF

Dear Sirs,

m.v."COLUMBIA STAR" - ex "ACT-10"

Enclosed please find drydocking and repair specification for the above named vessel presently due to be carried out July/August 1992.

We look forward to receiving your itemised quotation together with total time required in running/calendar days also number of days in drydock on due date Friday, 8th May 1992.

Yours faithfully,
for BLUE STAR SHIP MANAGEMENT LTD.

F.P.Willcock

Encl

TWO SPECS

WITH THE COMPLIMENTS OF

BOB - THEY WOULD LIKE PRICES FROM S. FRISCO + PORTLAND.

Competition :- SING. + AUSTRALIA

WITH THE COMPLIMENTS OF

SHIP REPAIRERS & SHIPBUILDERS LTD.
Tel. No. 01-928 5265/4302
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LONDON SE1 7RJ

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45/46 LOWER MARSH
LONDON SE1 7RJ

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

Labor	~~31,723~~	33,410
Mat	164,299	195,637
Sub	200,173	208,523
P~~UF~~	8,510	—
PUF	60,608	—
T	1,512,172.	1,540,100

Bid # 63-92

M.V. "COLUMBIA STAR"

DRYDOCKING SPECIFICATION

JULY/AUGUST 1992

SUPERINTENDENT ENGINEER

MR. M MacKENZIE

NWMAR130527

Blue Star Ship Management Limited
Technical Superintendents Department
Albion House
20 Queen Elizabeth Street
LONDON
SE1 2LS

Date: 31 March 1992

m.v. "COLUMBIA STAR"

It is our intention on behalf of Owners to place a contract for the drydocking and repairs of the above named vessel presently expected towards end of July/August 1992.

The Conditions of Contract and Specifications listed herein with instructions to Contractor attached are to be strictly adhered to and you are invited to tender for this work on a fixed price basis, together with the time required.

On receipt of this invitation, the Contractor must acknowledge stating whether or not it is their intention to quote.

The Contractor's fixed price quotation should be forwarded no later than A.M. Friday 8 May 1992

Blue Star Ship Management Ltd.,
Technical Superintendents Dept.,
Albion House,
20 Queen Elizabeth Street,
LONDON SE1 2LS.

Quotations should include all details of the Contractor's trading conditions of Contract.

1. The Contractor's attention is drawn to the specification, general instructions and survey details and information which must be incorporated with all specified work and be included within the fixed price quotation.

2. The Contractor's tender must be itemised as separate prices with sub-totals under all relevant specification sections. The length of refit period in running days and the number of days in dry dock must be stated. The Contractor should allow in the tender the possibility of the work content being increased by 20%, this being understood by the Contractor that such additional work to be contained in the Contractors "stated" specified time.

   All necessary overtime/shift rates/condition monies and premium rate necessary to complete refit work within the specified time given to be included in the Contractor's fixed price quotation.

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NWMAR130528

3. The Contractor's charges for any authorised additional items for work carried out in conjunction with or related to quoted specified items must be pro-rata to the original quoted work. Rebates for specified work or part specified work not carried out will be deducted from the fixed price on completion of the refit work or on a pro-rata basis.

4. Within duly authorised terms of reference on behalf of Owners, the attending Blue Star Ship Management Technical Superintendent will have the right to cancel, amend and adjust any of the items under the fixed price contract specification and/or any subsequently authorised additional work items.

5. No additional work or amendments will be committed as to work contents and cost without prior authorisation in writing by attending Blue Star Ship Management Technical Superintendent. Charges for any such amendments/work under this category will not be accepted unless so authorised. Where the work states "allow" appears in the specification, no work is to be commenced without authorisation of attending Superintendent.

6. On completion of the Contract, payment will be made in the amount of 80% of the quoted fixed price for specification work carried out herein against the Contractor's invoiced submission. The balance inclusive of any authorised amendments/additional work will be payable thereafter on submission and approval against the Contractor's fully detailed final accounts.

7. All work must be carried out to the entire satisfaction of the Blue Star Ship Management Technical Superintendent. The Contractor will be responsible for ensuring quality control, inspection/supervision at all times and the use of approved materials throughout, etc.

8. The Contractor must at all times during the refit ensure the strict safety of the vessel and all requirements relating to statutory and Government health and safety regulations concerning the vessel, equipment and personnel engaged within the project with all relevant costs received to be included within the Contractor's fixed price quotation.

9. Not later than one week before the commencement of the refit the successful Contractor will be required to produce a scheduled programme, indicating how they expect to complete the repair work/surveys listed.
The programme is to be up-dated regularly during the refit as to progress.

10 Blue Star Ship Management Ltd. will present the vessel at the Contractor's yard/or designated repair berth for the refit work to commence, and receive the vessel on completion for despatch at their costs.

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All movements required for the Contractor's purposes during the refit, inclusive of all necessary tugs, pilots, line handling etc., and the costs thereof shall be the responsibility of the Contractor, all relative charges in this category shall be deemed to have been included in the quotation.

11. The successful tenderer will be deemed to be the Main Contractor to Blue Star Ship Management for the purposes of the contract.

The Main Contractor will assume all responsibilities and liabilities for all sub-contractors engaged within the scope of refit other than where specifically excluded in writing to be engaged by Blue Star Ship Management directly on Owner's direct order. The Main Contractor is to identify all major sub-contractors intended to be engaged within the context of the contract.

12. It will be the Contractor's responsibility to co-ordinate and assist in the expedition of any work undertaken by Specialists/sub-contractors on Owner's direct orders in conjunction with the progress of the main refit.

13. The Contractor should disclose whether or not the yard is likely to be affected during the refit time of the vessel by any strikes, bans on overtime or weekend working slow work operation or working to rule or other hindrance which may be seen to preclude uninterrupted satisfactory conclusion of the refit.

14. Blue Star Ship Management Ltd. is not bound to accept the lowest or any quotation.

15. Dock and Port Charges

The successful Contractor will undertake to include all dock, wet berth, drydock, service and tariffs and dues in their fixed price quotation. No variation in dock, drydock dues, services, tariffs and dues will be considered unless prior advice has been given and approval in writing has been received by the Main Contractor.

16. General Instructions

Fire patrol and all fire precaution services are to be provided and maintained to Blue Star Ship Management standard instructions and Health and Safety Rules and Regulations - a separate copy of which is enclosed.

17. Hold and safety lighting to meet all safety standards in all spaces is to be adequately provided and maintained throughout the refit.

18. All work done on survey items is to be contained within reasonable requirements to meet classification and to Superintendents instructions and approval.

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19. It should be noted that some items in this specification may have been dealt with as a matter of urgency before the vessel presents for repairs and may subsequently be deleted.

20. All enclosed spaces, tanks and cofferdams are to have safe entry certificates obtained and certificate displayed prior to entry by any personnel.

21. All gas free certificates are to be supplied both for the vessel overall and locally as and when tanks and spaces are required for survey and repair work. Certificates are to be displayed and maintained throughout refit period.

22. Suitable skips are to be provided on board for collection and disposal of garbage and general rubbish.

23. All temporary lighting and ventilation to rig and maintain in way of repair as and when required.

24. Suitable safe gangway facilities to provide and to remain installed throughout the period of repair both in dry-dock and whilst at the repair berth/berths.

25. Ship and all spaces involved within the refit are to be kept free of rubbish and debris in the maximum interests of fire prevention, safety and hygiene.

26. Accommodation alleyway, floor coverings are to be protected throughout the course of repairs with suitable material against damage from dirt, oil, etc.

All accommodation, cabin, public and spaces not required for access are to be kept locked and are to be prohibited for access/occupation by Main Contractor/Sub-Contractor personnel.

Spaces required on board for use by shipyard personnel will only be made available by special arrangements with the Technical Superintendent. Where so allocated such spaces are to be cleaned and made good immediately prior to the completion of the refit.

Fittings, furniture and furnishings and Owner's property generally throughout are to be maintained and protected from indiscriminate damage/deterioration.

27. All manhole doors removed for survey work or requiring repair are to have studs and nuts rethreaded, broken or stripped studs/nuts renewed as necessary. Manhole doors to be boxed up (after inspection and passing of tanks and lids by designated ship's staff) with new joints, with studs and nuts greased prior to hardening up of doors. All tanks opened up during the course of refit are to be subjected to final inspection and approval of Owner's representatives.

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28. Tank drain plugs selected for removal are to be receipted against the signature of the Main Contractor's designated central co-ordinating officer and handed to the Chief Officer for recording and safe keeping.

All plugs to check after refitment and to be verified by ship's staff/Chief Officer and Contractor's co-ordinator.

29. Any tank, cofferdams or spaces opened up for survey/repairs are to be cleaned, dried out, and cleaned and inspected for approval by designated ship's staff prior to closing up of tanks or spaces.

30. No ship's tanks are to be emptied or filled during the repair period without the prior permission and authority of the attending Superintendent and Chief Officer.

All pumping/tank contents movements involved within the refit are to be centrally controlled via the Chief Officer/Main Contractor's co-ordinator.

31. Staging to be rigged, maintained and dismantled as necessary for repair work detailed, whether mentioned in individual item or not.

32. Any lagging disturbed or broken repair work is to be cleared away, made good and coated.

33. Any O.F. or L.O. pumped out (if so instructed) from tanks for survey/repair purposes is to be stored in clean containers and pumped back as may be authorised.

34. There may be no crew on board the vessel during the progress of the work (therefore day and night watchmen and a fire watch may be required). Allowance for this should be included within the quotation.

35. If crew does not remain on board, the accommodation, galleys, storerooms, heat, light and water systems are to be recommissioned and made available for inspection and occupation by Owner's at least 5 days before completion of the refit.

36. As an estimated minimum requirement a stabilised 60Hz supply of 440 volts AC 3 phase up to 600 amps should be available for use as required throughout the refit. At least 6 hours notice is to be given for any intended interruption of supply. Contractor's are requested to confirm that this facility can be provided.

37. Office accommodation for Blue Star Ship Management Superintendents will normally be arranged on board but where this is impracticable the Contractor is requested to provide facilities adjacent to the vessel.

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38. Care of Fittings, Stores, etc.

On submitting your quotation, Contractor to confirm that:-

i). Allocation of a suitable building (or part of a building) for warehousing/stores/ spares is available.

ii). Contractor is to provide staff responsible for the receipt, custody and issue, against receipts of the stores/spares checking of movements as necessary, and all costs and insurances of same should be included in the fixed price quotation.

iii). Arrangements will be advised by Blue Star Ship Management Technical Superintendent with regards to the disposal of any stores surplus to requirements on completion.

39. The Contractor should make due allowance for any burning/heating requirements of seized/damaged securing arrangements/brackets on machinery items also deck machinery, trunking, gangways, etc. throughout vessel's deck levels etc., due to 'open weather' conditions.

40. All underwater anodes, echo sounder fittings, propeller, etc., are to be suitably covered and protected during Hull Painting operations in dry-dock.
All overside scuppers are to be fitted with plugs or free flowing extended pipes to prevent scupper overside discharges interfering with paints programmes.

41. Dry-dock is to be adequate in space requirements, well lit, clean with fair dry-dock bed/block systems in good condition.

42. Special attention should be given to ensure Owner's full programmed painting specification to be carried out in way of rudder and stern frame area regardless of mechanical repairs necessary in that area.

43. No Burning, Welding or Hot Work is to be carried out in any spaces without prior consultation with Owner's representative.

If authorisation is obtained strict fire precautions, in accordance with Blue Star Ship Management standard letter must be maintained.

44. Owner's may require to carry out work by ship staff to run concurrent with the specified work and the Contractor must state whether such work by ship staff will be permitted.

Any restrictions by the Contractor over Owner's ship staff working must be stated at time of tendering.

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45. The Contractor will allow Owner's representatives/ specialists to operate "without restriction" during refit period.

The drydocking of the vessel is to be undertaken within three days of the vessel's arrival at the Contractor's premises, in order to safeguard against unforeseen underwater defects or damage, the repair of which may delay the redelivery of the vessel.

46. For inspection of work Owner and his representatives shall have right of access to Contractor's yard and vessel, at all reasonable times during contract period. Such inspection, however, shall in no way diminish or relieve Contractor's responsibility as to Guarantee of workmanship or materials or completion of the contract in every way in accordance with the approved plans and specification.

47. Stability of Vessel

Vessel to be maintained at all times in a stable condition. In conjunction with Owner's representative all pumping of tanks, removal or addition of heavy weights etc., shall be considered in relation to the stability and trim of the vessel before commencing operations.

48. Two portable pumps are to be installed to ensure engine room bilges are maintained free of oil, water or oily/water mixtures. Bilges are to be kept free of debris.

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M.V. "COLUMBIA STAR"

SPECIFICATION FOR DRYDOCKING AND REPAIRS

Specification Details

Code	013-001	Survey Work
	013-002	Machinery Repairs
	013-003	Deck/Accommodation Work
	013-005	Electrical/Navigation Equipment - Repairs
	013-006	Port Charges
	013-007	Drydock repairs, painting and scaling.
	017-001	Damage Irrecoverable
	043	Stevedoring Damage Claims
	025	Special Expenditure
	032	Damage Claims

Vessel's Particulars

Registry	Nassau, Bahamas
Ship and Type:	Refrigerated Container Vessel
Date of Building:	1980/01
Built:	Bremer Vulkan, Vegesack, W.Germany
Length O.A.:	169.387 mtrs 555'-08.5"
Length B.P.	159.100 mtrs 522'-00"
Breadth Moulded:	27.800 mtrs 91'-02.5"
Depth Moulded:	16.300 mtrs 53'-06.0"
Tonnage Gross:	19,613.5
Tonnage Nett:	10,711.57
Deadweight:	18,250.00
Class:	Lloyds Register 100 A1 + LMC + RMC + UMS

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Main Engine

1 - Two stroke Bremer Vulkan M.A.N. Diesel engine, type K9SZ 70/125. Maximum output 13,680 KW at 130 RPM, 2 x M.A.N. N.57 turbo blowers.

Auxiliary Diesels

1 - Aux. Diesel, maker Ruston, type 6 KRCZ, 1207 B.H.P. at 720 RPM.

3 - Aux. Diesel, maker Daihatsu, type 6DLB-26L, 1360 PS at 720 RPM.

4 - Alternator, maker A.E.G. Rotaduck, type DKBL 565/10 1125 KVA.

Cranes

2 - Hagglunds cranes, SWL 36 tons, electric/hydraulic.

Hatches

There are seven hatches No.1,6,7 and No.5 hatch port and starboard are general cargo.

Nos.2,3,4 and 5 centre are insulated. Tank tops are insulated using polyurethane foam slabs covered with reinforced ashphalt. Hatch sides insulated with aluminium foil faced polyurethane foam slabs, approx. 50mm thick, secured to steelwork with adhesive and special studs, joints covered with "3M" sealing tape. Hatch lids insulated with polyurethane foam reinforced with wire mesh approximately 120mm thick.

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Blue Star Line Ltd
Albion House,
20 Queen Elizabeth Street,
London SE1 2LS
Telephone: 01-407 2345
Telex: 888298
Telefax: 01-407 4636
In replying please quote reference

3 April 1992

Dear Sirs

In connection with the forthcoming repairs to be carried out by your goodselves on this vessel, we draw to your attention the fire precautions to be observed by yourselves as Main Contractors.

Two fire patrolmen are to be provided to attend continuously for constant patrolling of all spaces for fire hazard from commencement of work daily until two hours following completion of work daily, inclusive of sub-Contractors employed on Owner's direct order. The vessel is to be thoroughly inspected at that time jointly with the Owner's Duty Officer, who will endorse the fire Patrolmen's daily record book to the effect that all is in order and that Fire Fighting Equipment is available for the Owner's Duty Officer as necessary during the night.

If instructed in writing, Contractors are to provide time clocks with recording equipment and these are to be placed at various places throughout the vessel as instructed. Fire Patrolmen will be required to visit these spaces at given intervals and daily recording of time cards will be handed to Ship's Senior Officer.

Where work is to be carried out involving burning, welding or rivetting, or of a hazardous nature, the labour carrying out this work shall be supplemented by fire prevention watcher, who will be fully equipped with all necessary fire fighting equipment, and especially detailed to guard against fire outbreak. Individual fire hoses must be attached to the firemains and lead to the space in question, charged with water for immediate availability if required. Where structural work involving two or more decks in the hatch is being carried out, it may be necessary to provide more than one fire prevention watcher for adequate protection.

The vessel's fire mains are to be connected to adequate shore supply at all times. Where Port Regulations do not permit these hoses to be charged, the necessary tools for opening the supply cocks shall be available on a 24 hour basis in charge of the fire patrolmen during their duty hours or Owner's Duty Officers during the night.

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Special precautions must be taken where dismantling of any sections of the vessel's Fire Mains is necessary during the course of repairs, and suitable alternative arrangements are to be made as necessary.

We would draw your attention to the CO2 fixed fire smothering system, as per Merchant Shipping Notice No. M.825. We would advise Contractors that all necessary precautions should be observed at all times in those spaces in which CO2 equipment is installed.

When it is essential to shut down the mains for repairs etc., the ship's Senior Officer must be kept fully informed along with the Fire Patrol Staff.

Smoking will not be allowed in any part of the vessel and you will arrange to display notices to this effect and see these instructions are observed.

Accumulation of oil waste or other refuse of a combustible nature should be immediately swept up and removed from the vessel. All refuse exclusive of the above is to be cleared regularly from the vessel and at least daily.

For and on behalf of Owners

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Guidance Note GS 19 from the Health and Safety Executive

General fire precautions aboard ships being fitted out or under repair

General Series 19 (March 1983)

These Guidance Notes are published under five subject headings: Medical, Environmental Hygiene, Chemical Safety, Plant and Machinery and General.

INTRODUCTION

1 In the hull construction stage of most surface ships the risk of persons being trapped in a fire are low and special precautions are not normally necessary. However, during fitting out and during repair work, recent experience has confirmed that the risks are much greater and that the fire precautions outlined in this guidance note are necessary as a means of reducing the risks to an acceptable level. The danger of fire may vary according to the type of ship. Each situation therefore should be carefully assessed and the principles outlined in this Guidance Note should be applied so as to provide the precautions appropriate to the danger.

2 Several different categories of persons may be at risk during fitting out or repair operations. These may include crew members either resident or at work, main contractors and sub-contractors' personnel and visitors. It is imperative that adequate and suitable arrangements are made for co-ordination between these various categories in relation to general fire precautions.

MEANS OF ESCAPE IN CASE OF FIRE

3 Alternative escape routes should be provided, so far as is reasonably practicable, from all parts of the ship where men are, for the time being, employed. Vertical escape routes may become filled with smoke in the early stages of a fire, so where one of the escape routes leaves a space vertically at high level, the alternative route should preferably be at low level to an adjoining space. High level openings to allow smoke to vent to free air would help to keep escape routes available for use in the event of a fire.

4 Where it is not reasonably practicable to provide an alternative escape route from a dead-end, the number of men employed in the dead-end at any time should be kept as small as practicable.

5 If hot work has to be done in the vicinity of combustible material, or if the manipulation of flammable substances or other fire hazardous operations have to be undertaken in a dead-end:

(a) the work should be authorised by a responsible person; and where appropriate this should be by means of a written permit-to-work;

(b) only those men directly engaged in such operations should remain in the dead-end or in other affected spaces;

(c) a 'fire patrolman' with appropriate fire-fighting appliances should be stationed in the vicinity and have facility for giving warning in case of fire.

6 Alternative escape routes should be provided from the ship to the dockside. Where it is reasonably practicable, two gangways should be positioned, though one may be reserved for emergency use only. Where this is not reasonably practicable a second gangway, with slings attached, must be kept readily available on the dockside.

7 Escape routes and exits, if not in normal use by all those working in that part of the ship, or if not immediately apparent, should be clearly indicated. Fluorescent, reflective or other suitable signs may be used with advantage for this purpose. Suitably placed notices with outline extracts of relevant parts of ships' plans showing escape routes should be used on complex ships.

8 All means of escape should be properly maintained and so far as reasonably practicable, kept free from obstruction.

FIRE WARNING

9 Effective means, capable of being operated without exposing any person to undue risk, should be provided for giving warning in case of fire. The warning may be audible or visual but should be perceptible in every part of the ship in which men are, for the time being, employed. Where there are high noise levels from the operations it may be possible to give a preliminary warning by dimming the temporary lighting with an audible back-up which would be heard throughout the ship when the noise levels reduce in response to the visual warning. In some repair work it may be possible to use the ship's warning system but if this is disconnected an assessment should be made to ensure that it is adequately compensated by temporary (other) arrangements.

10 The means for giving warning in case of fire should be tested and examined prior to commencement of the fitting out or repair work aboard the ship and tested and examined at least weekly thereafter. A record of the

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dates and particulars of such tests and examinations should be kept.

FIRE-FIGHTING EQUIPMENT

11 Appropriate means for fighting fire should be provided, maintained and so placed in strategic positions as to be readily available for use. A sufficient number of men should be fully trained in its operation. In repair work an assessment should be made of the ship's extinguishing systems, which may have to be disconnected, for example for safety reasons during the operations, to ensure that if necessary they are adequately compensated by temporary measures. The ship's fire main should be checked for compatibility with shore appliances.

EMERGENCY LIGHTING

12 Many outbreaks of fire aboard ship are accompanied or shortly followed by failure of the temporary lighting system which adds considerably to the difficulties of evacuation. Cross feeding of supplies to the temporary lighting system significantly reduces the risk of failure and if adopted must be properly installed, maintained and must incorporate precautions to prevent differing supplies being interconnected. However cross feeding of supplies to a temporary lighting system cannot be regarded as comprising an emergency lighting system. Aboard many ships, some form of emergency lighting may be necessary. With multideck or heavily compartmented vessels it is usually necessary to have a sophisticated and completely independent system of emergency lights strategically sited on exit routes. Such systems should be supplied from a suitable standby power supply such as a standby generator or battery bank. At the other end of the risk scale the use of occasional fixed self-contained emergency lights, hand torches or chemical light sticks may be sufficient.

ROUTINE IN CASE OF FIRE

13 An effective routine to be followed in case of fire should be established to cater for all persons who may be aboard a ship, including crew members, employees of sub-contractors and casual visitors. The routine should include the means of escape and assembly points, the fire warning system and the means by which it is activated, the location of fire-fighting equipment etc.

14 To minimise the hazards of search and rescue operations should a fire occur, it is essential for management to have early and accurate information of any missing persons. A roll call system should therefore be established with predetermined and carefully located assembly points. A tally system for checking persons may be necessary for certain ships and for some groups e.g. employees of sub-contractors and visitors.

15 A designated person must be made responsible for summoning the fire brigade. Where there is a constantly manned switchboard, the operator should be instructed to make the call on hearing of the fire, without reference to any other person. Out of normal working hours, security staff should summon the brigade.

16 A designated person should be appointed to liaise with emergency services representatives. It is of assistance if such a person is clearly identified, for example by a labelled tabard.

INSTRUCTION IN THE ROUTINE

17 All persons employed aboard ships, including crew members and employees of sub-contractors, should be fully instructed in the routine to be followed in case of fire. It is recommended that:

(a) on starting work on a ship, or in a yard if the routine is standardised, persons employed should be given an explanatory leaflet with clear, precise instructions about the routine;

(b) notices emphasising the main aspects of the routine should be displayed on gangways and at other prominent positions;

(c) evacuation drills should be held during which persons should practice all elements of the routine including accounting for those aboard.

FIRE PREVENTION

18 Fire precautions are intended to mitigate the consequences of a fire. However, it is important to minimise the risk of fire occurring. Regular fire prevention inspections should be carried out by nominated persons. There should be strict control over the manipulation or installation of combustible materials, and the storage of such materials aboard should be kept to a minimum. Where appropriate, non-combustible or less combustible materials are preferred. Combustible waste should not be allowed to accumulate but should be gathered up and removed from the ship regularly.

FIRE-FIGHTING AND EMERGENCY SERVICES

19 A suitable plan prepared for such emergency contingencies as fire and drawn up in co-operation with the relevant emergency services and linked where appropriate to a relevant port emergency procedure is to be encouraged. Such a plan will assist in ensuring good liaison between the shipyard and emergency services and facilitate rescue operations where such are necessary. The need for clear access by emergency vehicles would form part of such a plan.

FURTHER INFORMATION

20 This Guidance Note is produced by the Health and Safety Executive. Further advice on this and other publications produced by the Executive is obtainable from Baynards House, 1 Chepstow Place, London W2 4TF or from Area Offices of the Health and Safety Executive.

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NWMAR130540

GRT 19614 T
LOA 556 ft
BREADTH 91 ft 02.5"
DEPTH 53ft 06.0"

PORT CHARGES - CODE 013-006

Berthing - Drydocking and Port Charges

Item 41 Berthing

Prior and after drydocking an adjacent berth alongside should be available and provided by the Contractor at which on any state (if tidal) the vessel is "floated free", with a reasonable depth of water below the outer bottom in any direction with fenders to be provided at the berth.

Allow for mooring/unmooring of vessel and any dues, facilities and services.

Allow for towage and pilotage in connection with docking/undocking operations and mooring/unmooring operations.

Item 42 Drydocking

Drydock is to be prepared with soft wood caps, vessel to be docked, adequately shored (including support under bulbous bow), unshored and undocked, including all necessary drydock dues and services, etc.

On completion of drydock work, vessel to be moved to a suitable lay by berth for completion of repairs, engine trials, etc. All necessary tugs, boats, boatmen, linesmen, onboard riggers pilot charges, harbour dues, etc.,onto and off lay by berths also into and out of drydock to be allowed.

Item 43 Shore Power

Connect up to vessel to shore electricity supply and supply three phase, 440 x 60 cycle power x 600 amps and price per unit (metered) to be quoted. Electrical readings to be monitored and agreed, total signed for consumed amount on completion.

Item 44 Circulating Water

Connect up to vessel temporary line, with leak off to domestic refrigerator (Harbour water if possible) and maintain services throughout drydock period and dismantle on completion. Charges per 1000 Litres.

Item 45 Chemist and Gas Freeing

Gas free certificates to supply as and when required for survey and repair work. Also for vessel's repair period at yard. Certificates to be displayed and maintained throughout repair period.

BERTHAGE:
556 x 1.50 = 834 PER DAY x 19 DAYS
LINEHANDLERS (TO/FROM STREAM) 8x3 x 2 HOURS
TUGS (TO/FROM STREAM) 2555 x 2
PILOTS (TO/FROM STREAM) 450 x 2

BLOCK/DOCK/UNDOCK FIG 16 OHRS x 35
TUGS 6053 x 2
PILOTS 450 x 2
LINEHANDLERS 8x4.5 x2
LIFT DAY 19614 x 0.34: 6669 x 1
LAY DAYS 19614 x 0.29: 5688 x 4 DAYS

SHORE POWER: CONNECT / DISC.
PER KWH UNIT
CIRC. WTR: CONNECT / DISC.
SUPPLY (1000 LITRES)
GAS FREE & CERTS
INITIAL SURVEY 750
ADDITIONAL VISITS 400 x 4
COMPETENT PERSON 4HRS DAY x 15

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 4/92 PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
																-	-	-	15,846
						48										48	-	-	-
																-	-	5110	-
																-	-	900	-
41						48										48	-	6010	5838
																-	-	-	5600
																-	-	13006	-
						72										72	-	-	-
																-	-	-	6669
																-	-	-	22752
42						72										190 72	-	13006	35,021
43									24							24	-	-	-
43																-	-	-	0.10
44								24								24	-	-	-
44																INCLUDED IN BERTHAGE & DRY	DOCK	TARIFF	
																-	-	750	
																		1600	
45										60						60	-	2350	-

NWMAR130541

Item 55 HARBOR OIL
20-30,000 gal.
To store 7.8
Pump both ways + store
254 gal.

Item 46 Refuse

Suitable skips to provide on board for garbage. These to be removed and cleared daily.

Item 47 Cranage Stores/Spares

Cranage to be made available for stores and spare gear, to place on board as and when required.

Item 48 Temporary Lighting - Hold Lighting

Temporary lighting to rig and maintain in way of repairs as and when required. Hold lighting lamps to maintain during repair period.

Item 49 Gangways

Suitable gangways (2) to provide and be installed throughout period of repairs both in drydock and whilst at lay by berth.

Item 50 Fire Lines

Connect up to vessel and supply water to vessel's fire main as per Owner's standard Fire Precaution Letter (copy attached). Minimum of 30 lbs PSI to be maintained at all times.

Item 51 Cranage to be provided as necessary for execution of repairs. PROBABLY WILL USE AT LEAST 1 DEDICATED CRANE DURING JOB FOR WHICH COURSE TO BERTH

Item 52 All spaces where Contractors work or use for access are to be cleaned and kept free of accumulated rubbish and debris in the interest of Fire Prevention and Hygiene and left clean on completion of repairs.

Item 53 Staging to rig, maintain and dismantle for repair work detailed, whether mentioned in individual items or not.

Item 54 Any lagging disturbed or broken during repair work to be cleared away, made good and coated.

Item 55 Any O.F. pumped out from tanks for survey/repair purposes to be stored in clean containers and pumped back to completion.

Item 56 Tank lids and hatches together with gangways and ladders to be removed for access and replaced in good order, as necessary to facilitate repairs.

Item 57 Fresh Water

Metered fresh water supply to connect to vessel at ship's connection as and when required for domestic purposes. Allow to supply (800) tons fresh water.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 4/92 PAGE ___ OF ___

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
46						30										30	-	800	1080
47																3	-	-	~~78~~
48									1/20							120	~~250~~	-	-
49						32										32	-	-	-
50								24								24	15	-	-
51						1/200										+ 400 1200	-	-	30,000
52															144	144	200	-	-
53																2	10	-	-
54																INCLUDED IN INDIVIDUAL WORK ITEMS			
55																-	-	0.35	-
56																INCLUDED IN INDIVIDUAL WORK ITEMS			
57								24								24	15	-	-

NWMAR130542

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 4/92

PAGE ____ OF ____

ITEM 58 NOTE: NO ALLOWANCE IS MADE FOR PROVIDING TIME CLOCKS OR RECORDING EQUIPMENT (PER BLUE STAR MANAGEMENT LETTER OF 4/8/92 THIS IS TO BE ACCOMPLISHED IF INSTRUCTED IN WRITING)

Item 58 Fire Patrol — 2 MEN PER LETTER, 1½ 24 HRS PER DAY

Fire patrol to be maintained as outlined in Blue Star Ship Management Fire Precaution Letter, copy of which is attached. Watchmen to patrol the ship as per attached instruction on a regular basis. Watchmen to present to Chief Officer daily record of control.

S.T. DAYS 2 X 24 X 10 = $480 X 15 DAYS

WEEKEND OR HOLIDAYS 2 X 24 X 12.50 = $600 X 4 DAYS

Item 59 Moorings

Additional moorings to arrange and attend upon engine trials on completion of repairs if required. — IF REQUIRED

Item 60 Temporary Ventilation

Rig and maintain temporary ventilation when and where required in connection with repair operation. — FIG. SHEET METAL MAINT. 8 HRS / $25.00 DAY X ____

Item 61 Painting

All new and disturbed work during refit to be primed and finished in one undercoat and one topcoat of paint.

Item 62 Telephones

Outside telephones (one direct and one coin box types) to be installed and maintained in locations as directed by Owner's representative whilst the vessel is in drydock and on the lay by berths. — 2 @ 6/10/175

Item 63 Compressed Air

Compressed air to be supplied as necessary for repairs. — CONNECT / DISC. (SUPPLY INCL. IN D.D. & BERTHAGE)

Item 64 Ballast

All ballast tanks to be emptied and refilled, allow for supplying at total of 5,304 tonnes of fresh water ballast. — CONNECT LINES / SET-UP & FILL (SUPPLY INCL. IN D.D. & BERTHAGE)

FIG 8 M/U PER 1000 TONS (4 HRS SET-UP & 4 HOURS FILL)

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
58																-	-	9600	-
59						24										24	-	-	-
60														64		64	250	-	-
61																FIGURE INCLUDED IN INDIVIDUAL WORK ITEMS			
62									12							12	20	350	-
63								24								24	10	-	-
64								4							40	44	50	-	-

NWMAR130543

Drydock Repairs - Code 013-007

Item 65: Docking plugs where removed to be handed to Chief Officer with signed covering note, and to be refitted on completion of repairs, allow for the removal of fifteen (15) plugs. } 15 @ 2/5

Item 66: All sea suction and discharge boxes, grids to remove and boxes to hose out and all mud and marine growth to remove. Bare steel areas to be disced or power brush back to clean steel and apply 2 x coats of primer. Boxes to paint with 2 x coats of A.C. and 3 x coats of A.F. — GRIDS 7 x 10/20

All grid securing arrangements to check and make good as necessary.

Sacrificial anodes (owners supply) to weld in boxes a total of 18 x 5 K.P. weight anodes. All redundant clips, stirrups, etc. to be cut off, flushed and disced smooth. — ANODES 18 x 2

Chief Engineer to finally inspect boxes before refitting of grids.

Sea Water Boxes

1. Emergency fire pump suction 4 x 14mm dia., bolts 221mm dia. 8 3/4" ⌀
2. Low suction port, 16 x 23mm dia. bolts 630 x 995mm (3 off). 25" x 39"
3. High sea suction starboard 16 x 23mm dia. bolts 630 by 995mm (3 off).

STAGE: FIG. USE OUR OWN MANLIFTS (OVERHEAD ACCOUNT)

Stage for access and remove on completion.

Item 67: Hull Cathodic Protection

Zinc anodes to be renewed as directed by attending Superintendent. Allow staging for access, all old redundant clips and stirrups to cut off, flushed and disced smooth, anodes owners supply. — STAGE: FIG. USING MANLIFTS (OURS) .. OVHD. ACCNT

(a) Anodes 58 off to weld, to bilge keel hull and stern frame areas. Weight 27.5 Kgs. 60.5# — REP ANODES 61 x 2/1

(b) Rudder 2 x anodes weight 27.5 Kgs. — PROTECT ANODES

Total number of anodes 60.

(c) Sal log anode to supply and fit, allow for drilling out three (3) securing screws, retapping holes and fitting new screws. Approx. size anode 130mm OD by 70mm ID x 20mm. x 2 3/4" x 3/4" APPROX 5" O.D
Log type - Doppler Simrad NL

STAGE AS NECESSARY
PROTECT ANODES

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: 4/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
65							30									30	75	-	-
			14	14			14								28	70	140		
							36									36	-		
																-	-	-	
66			14	14			50								28	106	140	-	-
																-	-		
							122									122	61		
															12	12	19		
67							122								12	134	80	-	-

NWMAR130544

Stage for access as necessary.

All anodes to be suitably protected during painting operation.

Item 68: Propeller Particulars:

PROPELLOR R&R ON ITEM # 3
FIG. RIGGERS & CROWS FOR TURNING/TRANSPORTING IN SERVICES
POP HEAVY LIFT RENTAL FIG 1000.00

Subgrade

No. of blades	4
Direction of Rotation	Right handed
Material	Cu Ni Bronze
Diameter	5,950 mm
Surface area	18.07 sq.metres

(a) Propeller blade cavitation to be repaired, built up by special welding of these areas. This work to be carried out by specialists in propeller repair work. Allow for a total area of 0.8 sq.metres to be repaired. Repaired area to be ground flush and smooth with blade contour.

Blade edges to be dressed up and any sharp edge blades to be trimmed back and ground to maintain a reasonable blade thickness at edge of blade.

(b) Propeller blade surfaces to be polished in line with I.S.O. requirements, this to be achieved as follows:

(i) Initially by use of a grinding machine fitted with 80 grade grit disc.

If surface areas are seen to have very heavy deposits present, then a 36 grade grit disc can be used initially (great care must be taken near edges to avoid changing the leading edge shape) followed by 80 grade grit disc.

(ii) Finally, to achieve a fine finish the outer 25% of blade surface area is to be polished by hand using worn 80 grade grit sheets.

Separate price for item (a) and (b) (i) and (ii).

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 5/4/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
ITEM 68 (a)																-	-	LIB 14500	1000
ITEM 68 (B-1)																-	-	10000	-
68 (B-2)																-	-	2500	-

NWMAR130545

Item 69 Hull Preparation and Painting

1.0 General

1.1 All paints will be supplied by Jotun-Henry Clark and to Owner's account. All Owners paint to be received at yard,stored, shifted and handled to drydock/berth and remaining paint to return to agreed location in yard for collection by paint supplier.

1.2 All shotblasting and painting to hull is to be carried out in a graving/floating dock having good all round clearance and accessibility inclusive of adequate headroom beneath ship's bottom. Details of the dock intended for use to be submitted with your tender for approval. INFO

1.3 Only one cleaning/painting contractor to be employed and where cleaning, painting or blasting is carried out using different contractors due to size of vessel, a Manager or Foreman to be made responsible for all functions. He is to liaise with both Superintendent and Paint Supplier's representative to ensure their requirements are met in all respects. INFO

1.4 Adequate protection is to be provided for propeller, sterntube, rudder pintle bushes, inlet scoops, impressed current anodes,echo sounder and log to prevent ingress of shot and paint. All protective coating to be removed on completion INCL. IN INDIV. ITEMS

1.5 The shipyard to provide all necessary staging, equipment and facilities for carrying out the of work involved in a safe and efficient manner. All shotblasting and painting is to be performed from fixed and/or movable elevating platforms. Suspend platforms (swinging from a crane hook) are considered unsatisfactory. Good accessibility to all surfaces is of paramount importance particularly in way of bow, stern and bilge areas. This to achieve proper blasting and painting, also careful and safe inspection. FIGURE USE HAULIFTS COURS

1.6 An adequate standard of lighting is to be available at all times . Facilities to be available both day and night for instant repair or replacement of any lighting units which are subject to breakdown or damage. INFO

1.7 Special attention to be given to ensure Owner's full programmed painting specification is carried out in way of rudder and stern frame areas regardless of any mechanical repairs which may prove to be necessary in these areas. INFO

1.8 Where grit blasting is carried out, any cleaning and washing down of decks, superstructure aprons, etc., to be washed and cleaned down as good housekeeping and allowed in the tender price. As soon as blasting is complete grit to be removed from dock. INCL.

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 4/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

1.9 Notches in sheer strake to be dammed and scupper to be plugged and adequate flexible hose extensions to dock bottom to fit and ensure tight to prevent leakage down shell from any in service scuppers or overboard discharges prior to painting. Allowing for four (4) overboard discharges and twelve (12) scuppers.

Contractor to ascertain all sea valves are proved shut prior to shot blasting, except those in use, and that all grids are removed for access to determine this point.

1.10 A representative of the paint manufacturer is to take hull roughness readings on two occasions, namely:-

a) prior to cleaning commencement, local fouling to be removed in small areas as requested by above representatives.

b) upon completion of all paintwork prior to float out.

INFO

Stable access to within two feet (arms length) of the hull surface is to be available to facilitate hull surface roughness measurements. This is particularly important in curved areas of the bow stern.

2.0 Shotblasting Requirements

2.1 Standard of blast

The areas specified are to be blasted to a Swedish standard of S.A. 2.5 compatible with ship's age.

Photographic standard to be provided for comparison and standard of blast to be to Owner's complete satisfaction.

Prior to blasting commencement any patches of oil and/or grease on the hull are to be removed by use of an emulsifiable type of cleaner.

INFO

Prior to commencement of work a trial area of blasting to the required standard is to be carried out by the Contractor for approval by the Owner's representative.

It is recommended that blasting and application of holding primer be undertaken in a controlled sequence as to be discussed with Owner and Paint representative prior to commencement of work.

The standard of preparation and cleaning prior to painting is to be passed by Owner and Paint representative.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: 4/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

2.2 Shot Abrasive

The shot abrasive to be used by Contractor is to be to Owner's approval and blasting is to be carried out using an appropriate mixture of grades such that:

a) any areas of pitting of the steel are thoroughly penetrated to effect cleaning of the bottom of pits.

b) the profile of the resulting blasted steel surfaces shall be generally within the limits of a peak to valley height of 50-70 microns and not exceed 100 microns. The profile to be measured with an "Elcometer" surface profile gauge or similar instrument.

Shot is not to be recovered and re-used by the Contractor.

2.3 Grit and Dust Removal

Prior to blast cleaned surfaces being primed, grit and dust thereon is to be removed by both brushing and high pressure air jetting. These methods are to be used conjointly, either alone is inadequate.

After all blasting and first coat of primer is completed and prior to second coat of primer being applied, the whole of the hull including bottom, boottop, topsides, decks and superstructure is to be cleaned and fresh water washed to remove all grit and dust and any other deposits thereon.

2.4 Spent Shot/Abrasive Removal

Removal of spent shot/abrasive from the dock is to be undertaken as soon as possible after initial priming coat is applied and in any case, before application of second coat or primer. This particularly in way of flat of bottom where high winds could cause grit and dust inclusion in newly painted surfaces.

2.5 Application of shotblast primer

It is of paramount importance that following blasting of an area, the first coat of primer must be applied before any rusting of plate has occurred. To this end a maximum period of 3 hours should be adhered to between blasting an area and subsequently covering that area with primer.

At anytime when blasting is in progress, paint applicators are to keep all paint and airless spray pumps out of the dock bottom. This to avoid risk of pumps picking up grit whilst painting, which could cause roughness in paint film surface also block off spray nozzle tips.

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 4/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

It is also important that co-ordination between various traders working on the ship is properly adhered to, this to avoid contamination of blast cleaned surfaces before paint is applied, also to avoid contamination of newly painted surfaces thereafter.

All blasting and application of holding primer is to be completed prior to the application of any further paint.

3.0 Painting Requirements

3.1 Application of Paint

All paints are to be applied by airless spray to a high standard so as to give a smooth even coat. Any runs or curtaining to be dressed off as directed by Owner and paint representative.

Standard of cleaning and or preparation prior to painting to be passed by Superintendent and Paint representative before any paint is applied.

All paint coatings are to be applied in daylight hours only unless authorised.Exemption may be given at the discretion of the Superintendent provided adequate lighting is available and climatic conditions allow.

Paint manufacturer's recommendations, including pressures, tip sizes, film thickness and over-coating times to be strictly adhered to.

No thinners are to be added to any paint, unless specifically approved by paint manufacturer's representative.

Power stirrers to be provided to ensure easy and thorough mixing of all paints prior to application.

Climatic conditions are to be monitored by paint representative and under no circumstances will blasting or painting be permitted without authority from the Owner's representative. Should weather conditions become unfavourable, Contractor is to have sprayers at the ready to apply primer at the instant any blasting has finished. Should any area become rusted in the opinion of the Owner and paint representative, then this will be unacceptable to the Owner and require re-blasting.

3.2 Airless Spray Equipment

The airless spray equipment must be capable of producing 300 psi at each nozzle tip with a pump ratio of 45.1 and a minimum pump discharge of 2 litres per minute per gun. Nozzles sizes can be obtained from the paint manufacturer's data sheets.

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

Equipment is to be in good working order with essential spares available without extensive delays.
The equipment must be acceptable to Owner and paint representatives.

FIG. USE OUR MAN-LIFTS FOR HULL PRESERVATION

3.3 Test Panels

Test panels are to be inspected by the paint representative for each type of paint in use, to ensure the correct wet film thicknesses and application of the paint.

4.0 Hull Preparation

4.1 ALLOWANCE TO HIGH PRESSURE WASH 8445 M2

4.1 Water Wash

H.P WASH 90,900 ft² ÷ 6400 = 14.2 HRS

50% 15 HRS × 4 MACHINES × 95 HR = 5700 ÷ 400 PICKUP & DELIVERY

15 HRS × 4 MACHINES × 3 MEN

All hull plating to include rubber, bilge keels, etc. to be high pressure water washed using fresh water at 5,000 lbs psi pressure (350 Kg/cm2) and all marine growth removed.

All heavy shell to hand slice and wire brush and on completion hull to wash down with fresh water from main deck level to keel.

FIG. MINIMAL AFTER HIGH PRESS WASH

Allow for removal of heavy deposits of shell and grass below waterline.

Allow for removal of oil deposits and stains on hull with chemicals and washed off with approved agent before fresh water hosing down.

All marine growth on dock bottom to clear and to be disposed of ashore.

Please quote separate price but include in tender price

4.2 Allow to grit blast flat bottom and sides up to paint line including rudder and bilge keels in accordance with the standard preparation and apply the following priming coats to the area specified.

4.2 NOTE: ALLOWANCE FOR BLASTING 5723 MTR² TO SA 2.5 WITH 3 FULL COATS AS LISTED (F.B. & SIDES)

400 1 x full coat - epoxy holding primer DFT 25 microns
1 x full coat - safeguard Brown DFT 125 microns
1 x full coat - safeguard Dk Brown DFT 125 microns

Please quote separate price but include in tender price.

4.3 New boottop line to cut in one (1) metre below existing paint line and (after completion of blasting as specified in 4.1) apply the following priming coats to the area specified.

4.3 NOTE: ALLOWANCE FOR PAINTING ONLY 2722 MTR² (TOPSIDE INCL BULWARK) 3 FULL COATS AS LISTED

400 1 x full coat - epoxy holding primer DFT 25 microns
200 1 x full coat - Jotomastic 87 aluminium DFT 125 microns
200 1 x full coat - Jotomastic 87 aluminium DFT 125 microns

Please quote separate price but include in tender price.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
															180	180	100	6100	
															32	32	100		
4.1															212	212	200	6100	-
4.2			2541												77	2618	29712	-	2054
4.3			183												37	220	458	-	-

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

4.4 Allow to grit blast top sides including bulwarks outsides, in accordance with the standard preparation and supply the following priming coats to the areaspecified.

1 x full coat - epoxy holding primer DFT 25 microns
1 x full coat - Jotomastic 87 aluminium DFT 125 microns
1 x full ocat - Jotomastic 87 aluminium DFT 125 microns

Please quote separate price but include in tender price.

Sandswept 29,300 ft²

4.5 Allow to grit blast topsides including bulwarks outsides, to a minimum standard of SA1 and apply the following coats to the area specified.

1 x full coat Jotomastic 87 aluminium DFT 125 microns
1 x full coat JOtomastic 87 aluminium DFT 125 microns

Please quote separate price but include in tender price.

4.6 Blasted areas to be in accordance with the standard preparation (SA 2.5).

		61,602 ft²
Flat bottom including sides, bilge keels and rudder		5,723m2
		29,300 ft²
Topsides including bulwarks		2,722m2
Total		8,445m2
		90,902 ft²

4.7 Blasted areas to a minimum standard of SA1

Topsides and bulwarks	Sandswept 29,300 ft²	2,722m2

4.8 Paint Areas and Specification

Flat Bottom	26,480 ft²	2,460m2
Vertical Sides	28,665 ft²	2,663m2
Boot Topping	6,458 ft²	600m2
Topsides and Bulwarks	29,300 ft²	2,722m2
	90,903	

Apply following coats to overall area as instructed

4.9 Underwater Area - 4 year system

Flat Bottom

1 x full coat-A/F Sea Victor 50 Lt Red DFT 130 microns
1 x full coat-A/F Sea Victor 50 Dk Red DFT 130 microns
1 x full coat-A/F Sea Victor 50 Lt Red DFT 130 microns

Vertical Sides (including boottop area - total 3263m2)

1 x full coat-A/F Sea Victor 50 Dk Red DFT 120 microns
1 x full coat-A/F Sea Victor 50 Lt Red DFT 120 microns
1 x full coat-A/F Sea Victor 50 Dk Red DFT 120 microns
1 x full coat-A/F Sea Victor 50 Lt Red DFT 120 microns

4.4 NOTE: ALLOWANCE FOR BLASTING 2722 MTR² TO SA 2.5 WITH 3 FULL COATS AS LISTED (TOPSIDES & BULWARKS)

4.5 NOTE: ALLOWANCE FOR BLASTING 2722 MTR² TO SA 1.0 WITH 2 FULL COATS AS LISTED (TOPSIDES & BULWARKS)

4.6 NOTE: ALLOWED TO BLAST 8445 M² TO SA 2.5 (NO PAINTING) (ENTIRE HULL)

4.7 NOTE: ALLOWED TO BLAST 2722 M² TO SA1 ONLY (NO PAINTING) (TOPSIDES & BULWARK)

4.8

4.9 PAINT ONLY: FLAT BOTTOM 2460 M²

4.9 VERT SIDES INCL BOOT-TOP 3263 M²

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
4.4			1209												37	1246	14136	-	977
4.5			381												29	410	2417	-	147
4.6			3182													3182	42420	-	3038
4.7			234													234	2051	-	147
4.8																- INFORMATION ONLY			
4.9			318												64	382	795	-	-
4.9			562												112	674	1405	-	-

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
4.9 VERTICAL SIDES (LESS BOOTTOP) 2663 M²			458												92	550	1146	-	-
4.9 BOOT TOP 600 M²			22												4	26	54	-	-
4.10 PAINT ONLY TOPSIDE 2772 M²			98												20	118	244	-	-
5.0 PAINT LINE																INCLUDED IN SECT 4.0 COMBINATIONS			
5.1 SEA-CHESTS																INCLUDED IN ITEM 66			
5.2 DRAFT MARKS, ETC.			72													72	50	-	-

Vertical Sides

As above excluding boottop areas - Total 2,663m2.

Boottop Area 600 M²

300 1 x full coat - Pioneer Topcoat Blue DFT 50 microns (2 MIL)
1 x full coat - Pioneer Topcoat Blue DFT 50 microns

4.10 Topside Area

300 1 x full coat - Pioneer Undercoat Grey DFT 50 microns (2 MIL)
1 x full coat - Pioneer Finish Grey DFT 50 microns

5.0 Paint lines

Paint lines are to be cut in as follows:-

(i) between bottom and boottop
(ii) between boottop and topside
(iii) between topside grey and white

5.1 Injection Boxes

These items are not to be shot blasted but to be cleaned and given two coats of anti-corrosive primer and three coats of anti-fouling.

Grids to be replaced and properly secured after applying three coats of anti-fouling to all surfaces thereof.

5.2 Draft Marks, etc

Draft marks, plimsol marks, bow emblem, ship's name and port of registry, bulbous bow markings, bow thruster markings, etc. to be painted.

SEPARATE PRICE REQUIRED FOR 4.1 to 5.2

NWMAR130552

NORTHWEST MARINE

PAGE ____ OF ____

ITEM 69 HULL PREPARATION & PAINTING

VESSEL: COLUMBIA STAR EST. BY SB DATE: 4/30/92

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
4.1	HIGH PRESSURE WASH (SEE EST. SHEET)																				
4.2	BLAST 5723 M²R² TO SA 2.5 & PAINT (3-COATS)																				
	61,602 ÷ 150 = 410.7 T GRIT × 70/d/5 61.6K × 35 M/H PER K				2156													2156	28749	-	2054
	PAINT 1 F/C = 61,600 ÷ 400 154 } 770 GAL @.5 PAINT/.25 2 F/C = 123,200 ÷ 200 618 × .1/1 CAN DISPOSAL				385												77	462	963	-	-
		4.2			2541												77	2618	29712	-	2054
4.3	PAINT 2722 M²																				
	PAINT 1 F/C 29,300 ÷ 400 ft² PER GAL 73 } 366 GAL @.5/.25 2 F/C 58,600 ÷ 200 ft² PER GAL 293 × .1/1 CAN DISPOSAL	4.3			183												37	220	458	-	-
4.4	BLAST 2722 M² TO SA 2.5 & PAINT (3-COATS)																				
	29300 ÷ 150 = 195.4 T GRIT × 70/d/5 29.3 K × 35 M/H PER K				1026													1026	13678	-	977
	PAINT: 1 F/C 29,300 ÷ 400 ft² PER GAL 73 } 366 GAL @.5/.25 2 F/C 58,600 ÷ 200 ft² PER GAL 293 × .1/1 CAN DISPOSAL				183												37	220	458		
		4.4			1209												37	1246	14136	-	977
4.5	BLAST 2722 M² TO SA 1.0 & PAINT (2-COATS)																				
	29300 ÷ 1000 = 29.3 T GRIT × 70/d/5 29.3 K × 8 M/H PER K				234													234	2051	-	147
	PAINT: 2 F/C 58,600 ÷ 200 ft² PER GAL = 293 GAL @.5/.25 × .1/1 CAN DISPOSAL				147												29	176	366		
		4.5			381												29	410	2417	-	147
4.6	BLAST 8445 M² TO SA 2.5 (NO PAINT)																				
	90,903 ft² ÷ 150 = 606 T OF GRIT × 70/d/5 90.9 K × 35 M/H PER K				3182													3182	42420	-	3030
		4.6			3182													3182	42420	-	3030
4.7	BLAST 2722 M² TO SA 1.0 (NO PAINT) 29300 ÷ 1000 = 29.3 T GRIT × 70/d/5 29.3 K × 8 M/H PER K	4.7			234													234	2051	-	147
4.8	PAINT AREA & SPECIFICATIONS	4.8																INFORMATION		ONLY	

WORKSHEET

NWMAR130553

NORTHWEST MARINE

PAGE ____ OF ____

ITEM 69 HULL PREPARATION & PAINTING

VESSEL: COLUMBIA STAR EST. BY SB DATE: 4/30/92

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
4.9	PAINTING:																				
4.9	FLAT BOTTOM 2460 M² (26480 ft²)																				
	3 F/C 79440 ÷ 125 ft² PER GAL = 636 GAL @ .5/.25 x .1/1 CAN DISPOSAL				318												64	382	795	-	-
4.9	VERTICAL SIDES 3263 M² (35123 ft²)																				
	4 F/C 140,492 ÷ 125 ft² PER GAL = 1124 GAL @ .5/.25 x .1/1 CAN DISPOSAL				562												112	674	1405	-	-
4.9	VERTICAL SIDES .. LESS BOOTTOP AREA 2663 M² (28,665 ft²)																				
	4 F/C 114,660 ÷ 125 ft² PER GAL = 917 GAL @ .5/.25 x .1/1 CAN DISPOSAL				458												92	550	1146	-	-
4.9	BOOTTOP 600 M² (6458 ft²)																				
	2 F/C 12,196 ÷ 300 ft² PER GAL = 43 GAL @ .5/.25 x .1/1 CAN DISPOSAL				22												4	26	54	-	-
4.10	TOPSIDE 2722² (29300 ft²)																				
	2 F/C 58,600 ÷ 300 ft² PER GAL = 195 GAL @ .5/.25 x .1/1 CAN DISPOSAL				98												20	118	244	-	-

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

DEPTH = 53'
− 21'
32' STAGING X 2 SECTIONS LONG
X 4 LOCATIONS = 256'

Damage Irrecoverable - Main Code 017

Item 70: Damaged shell plating and internals in way of No.2 and 3 port and starboard side tank to repair to Class Surveyor and Owner's instruction.

BID NOTE: RIVITED SEAMS EXTRA

Tank	Frames	Capacity (W.B.)
No.2 Port Side	138-160	294 tons
No.3 Port Side	120-138	264
No.2 Stbd Side	138-160	294 tons
No.3 Stbd Side	120-138	264

Damaged shell plating and internals frames 131-141, 3rd and 4th strake below shear, port and starboard sides to be dealt with.

Allow for the following renewals:

No.2 & 3 side tanks port, allow for the following. number of frames to be released and crop out sections for renewal, also bulkhead between No.2 and 3 tanks.

9 x frames 3.5 metres long x 240mm x 10.5mm bulb bar. 9½" H. 5/16" THK C/F MC10 X 28.5# [= 2945#
1 x section of bulkhead 3.5 metres long x 700 x 10mm. 11½" X 2.3' X 7/16" = 473#

Shell plating, allow for renewing section of shell plating in 3rd and 4th strake below shear. 1.8 metres x 3.8 metres x 14mm each. = 11.81' x 12.5' x 25.50# = 3758# TOT. 7176 LBS X 2 SIDES = 14,352 @ 8#/hr
CLEAN/PAINT - FIG 4 COATS @ 8 X 2

Carry out work in No.2 and 3 side tanks starboard as listed for port side.

ALLSTATE QUOTE: 18,710 + 250 CERTS

Tanks to clean and gas free, remove 2 manhole lids per tank for access, refit with new jointing material. (Total number of lids eight (8)). @ 8/50 = 64/400

Allow to remove and dipsose of 20 ton of mud. 500

Stage for access and remove on completion. 256' @ 1½/5
Tanks to pressure test on completion of repairs. FIG. 33 RATE X 4

All renewed steel to be shot blasted to SA 2.5, primed and painted. INCLUDED ABOVE.

Item 71: Port and starboard No.2 ballast tanks, fractures in tank side in way attachment brackets for container cell guides to be gouged out and back welded where doubler plates fitted. Allow for four (4) locations per tank, approx. 800mm long each location. Stage for access. The above work to be carried out in conjunction with item 70.

STAGE 8 X 32' = 256 @ 1/2 (FIG. SAME COVERED IN 70)
21' TOT. V/W @ 1.5 = 32 hr + 50
CLEAN/PAINT - 16 hr + 50

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
		4					1148									1152	5741		
			64													64	350		
							64									64	400	18960	
							128				384					512	1280		
TOTAL 70		4	64				1340				384					1792	7771	18960	
TOTAL 71			16				32				256						356		

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: 5-01-98

Item 72: No.3 cargo hold, No.3 port fuel oil tank fracture in tank in way of cell 01 and 02 forward end to repair (bay 09).

Tank	Frames	Capacity
No.3 port D.B.	119-139	343 tons

Tank to open up, gas free and clean for hot work, any remaining oil to be pumped out and disposed of. (Allow for 3 tons).

Two manhole lids to remove for access and refit with new joints.

Cement box in way of fracture to remove and dispose of. Allow for cropping out and renewing section of tank top 800 x 800 x 12.5mm. Lower end of cell guide to release and reweld on completion to new steel. Container stool to crop and reweld to new steel.

Tank to pressure test on completion using air to 2 p.s.i.g.

Tank top insulation to renew in area of repair, allow for 1.5 metres x 1.5 metres, see type of insulation fitted in vessel description at introduction to specification.

Item 73: Brine Pipe Repairs (Bay 09)

No.3 cargo hold, section of damaged brine pipes delivery and return to crop out and renew.

Dia. of pipe 100mm – 4"
Total length 12 metres – 39' 14½"
Pipe to be galvanised externally only.
Insulation of pipe to renew as original.
Stage for access and remove on completion.

Item 74: No.2 Hagglunds crane, heavy indent right hand bottom section approx 4.8 metres from jib end bearing.

Dimensions of indent: 350mm long – 14"
220mm wide – 8½"
40mm deep – 1½"

Section to crop out to remove damaged part which is causing a bulge on the side of the jib and new section to weld in place. Allow for a sect. 800mm x 300 x 10mm plate bent at right angles. Wrapper plate to fit to box section of jib over the section renewed for additional strength, approx. length 1m long x 10mm, box section 500 x 450mm approx, crane to load test in conjunction with quadrennial survey, item 38.

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
							16									16	100		
CHEMIST																		150	
LIGHTS/VENTS									2					4		6	—	ALLSTATE 4650	
			4				112									116	143		
							24									24	20	1250	
TOTAL 72			4				152		2					4		162	263	6050	
13# @ .7 AB Insull.												9				9	440		
STAGE 16 VF @ 2/10											32					32	160		
R/R Pipe 160LD @ .5/1.54							80									80	246		
GALV - 599# @ .37																—	222		
Insull - 13 @ .35/4												5				5	52		
I-73							80				32	14				126	1120		
											32					32	80		
			8				46									54 ~~64~~	112		
TOTAL 74			8				46				32					86 ~~96~~	192		

NWMAR130556

Cent meter = 0.3937"

2" thick

Item 75: Repairs to damaged insulation in reefer holds, 2,3,4 and 5. Insulation type aluminium foil faced polyurethane foam slab, 50mm thick. Damaged areas to x cut out and fit new sections and seal edges with 3M tape. — FIG 5+#10/□' + SHEATHING & WOOD

(1) Bay 07-06-12 Insulation protection plated starboard, forward and port aft to renew in galvanised sheathing approx size 1 x 1.5m. 40" 60" — 17□' METAL = 6hr+#50

(2) Bay 07-07-10 Insulation damage 30 x 50cm 12" x 20"

(3) Bay 09-07-10 - - 40 x 50cm and 50 x 10cm 16" x 20" 20" x 4"

(4) Bay 09-08-10 - - 60 x 25cm 24" x 10"

(5) Bay 13-07-12 - - 100 x 50cm and 120 x 80cm 40" x 20" 48" x 32"

(6) Bay 13-05-12 Insulation including wooden support and protection sheathing damaged, to remove and renew 240 x 40 x 15cm. 95" x 16" x 6" — METAL - 13□' = 6hr+50 WOOD? - FIG 8hr+50

(7) Bay 13-03-12 Coaming insulation protection plate damaged and to renew 1.5 x 1.8 metres. 5' x 6' — 30□' - 10hr+90

(8) Bay 13-04-14 Insulation damage 30 x 60cm .3937" = 12"x24"

(9) Bay 13-06-12 Coaming area of 3.2 x 1.5 metres insulation protection plate missing. Wooden guard to renew 2.5 metres long 1.6 by 1.5m layer of 50mm ~~thick insulation~~ to renew. 10.5ft x 5ft 5ft — METAL = 53□' = 18hr+159 — 8.2ft - 8hr+50 5.25ft

(10) Bay 13-05-12 Insulation including wood ground and protection sheathing damaged, to remove and renew 240 x 40 x 15cm 95" x 16" x 6" — SAME AS 6

(11) Bay 15-05-12 Repair as per item 10. 5ft x 2ft

(12) Bay 15-03-12 Coaming 1.5 x 0.6 metres insulation missing, 1.5 x 1.8 metres protection plate missing, to be renewed. — 29□' 10hr+90

5ft x 6ft 1.5 x 1.8 metres protection plate damaged and to be renewed. — 29□' - 10hr+90

(13) Bay 15-04-12 Coaming aft, insulation including wooden ground and protection plate damaged to be renewed 240 x 40 x 15cm. 95" x 16" x 6" — SAME AS 6

Coaming insulation and insulation protection plate damaged and to be renewed, insulation area 1.5 x 0.8 metres, protection plate 1.5 x 1.8 metres. 5ft x 2'8" 5' x 6' — SAME AS 12 (½)

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
1														6		6	50		
2																			
3																			
4																			
5																			
6														6		6	50		
7											8					8	50		
8														10		10	90		
9														18		18	159		
10											8					8	50		
11											8			6		14	100		
12											8			6		14	100		
13														20		20	180		
14											8			6		14	100		
15														10		10	90		

NWMAR130557

(Copy)

(14) Bay 17-03-12 Insulation, wood ~~ground~~ CARD and protection plate damaged, to be renewed 100 x 40 by 15cm. 40" x 16" x 6" WOOD- 8/50 5□' = 3hr + 15

Coaming insulation damage 30 x 80cm. 1' x 2.6ft

(15) Bay 17-03-12 Insulation damage 25 x 50cm and 40 x 60cm to renew 10" x 20" 16" x 24" 12" x 8" 24" x 16"

(16) Bay 17-04-12 Insulation damage 30 x 20cm; 60 x 40cm; 70 x 40cm; 15 x 25cm to renew. 28" x 16" 6" x 10"

(17) Bay 17-08-08 Insulation damage 50 x 40cm and 50 x 50cm to renew. 20" x 16" 20" x 20"

(18) Bay 17-04-08 Insulation damage 140 x 100cm to renew. 55" x 40"

(19) Bay 17-04-06 Insulation damage 40 x 50cm to renew. 16" x 20"

(20) Bay 17-03-06 Insulation damage 50 x 50cm and 120 x 60cm to renew. 48" 20" x 20" 24"

(21) Bay 19-01-12 Coaming aft, wood ground insulation and protection plate damaged, to be renewed 120 x 40 x 15cm. 48" x 16" x 6" WOOD 8/50 6□' = 4hr/20

(22) Bay 19-02-12 Coaming aft, wood ground, insulation and protection plate missing 180 x 40 x 15cm to be renewed. 72" x 16" x 6" 8□' = 5hr/24 WOOD-4/20

(23) Bay 19-04-12 Coaming aft, wood ground, insulation and protection plate damaged, to be renewed 120 x 40 x 15cm. 48" x 16" x 6" SAME AS 22

(24) Bay 19-03-12 Insulation damage, to be renewed 100 by 70cm, 30 x 30cm and 20 x 30cm. 40" 28" 12" x 12" 8" x 12"

(25) Bay 19-04-12 Insulation damage, to be renewed 120 by 80cm. 48" 32"

(26) Bay 19-03-10 Insulation damage to be renewed 110 by 70cm. 44" x 28"

(27) Bay 19-03-08 Insulation damage to be renewed 40 by 40cm. 16" 16"

(28) Bay 19-04-08 Insulation damage to be renewed 140 by 150cm and 80 x 90cm. 55" x 54" 32" x 36"

(29) Bay 19-04-06 Insulation damage to be renewed 120 by 50cm. 20" 48" x

PAINT—

TOTAL INSULATION: 400□' @ 5/10

The above areas to be staged as required for access.
FIG. TO USE CRANE/PERSONNEL BOX OR J.L.G.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
											8					8	50		
														3		3	15		
											8			4		12	70		
											4			5		9	44		
											8			4		12	70		
		32														32	100		
											200					200	4000		
TOTAL 75		32									268			104		404	5368		

Item 76: The following container cell guides and brackets to be repaired.

(1) Bay 19-07-04 Starboard cell guide bent section to crop out and renew. Approx. size 1.8m x 120 by 120 angle bar, support brackets to reweld. 4hr

5x5x5/8 L - 20#/ft x 35' = 700# @ 10#/hr

(2) Bay 19-05-04 Port and starboard cell guides to crop and part renew, approx. size 2.4m x 120mm by 120mm (two sections). Support brackets to fair and reweld. 8hr

(3) Bay 19-05-02 Port and starboard cell guides section approx. 2m x 120mm x 120mm to crop and renew. Connecting brackets to hold beams to reweld or renew as necessary. 8/50

(4) Bay 18-05-04 Cell guide port forward, section 2 metres to crop out and renew 120x 120mm angle bar.

Cell guide starboard forward upper port where connected to coaming to repair and reweld 70cm. 28"

Aft cell guide to reweld 10cm. 4"

8hr

(5) Bay 21-07-10 Starboard and centre cell guides to crop and part renew, 2.5m x 120 x 120mm angle bar.

The above areas to be staged as required for access.

FIG CRANE/BOX OR J.L.G.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY RW PAGE ___ OF ___ DATE: 5/5/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
TOTAL 76			16				98								8	122	330		

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY RW DATE: 5/4/92 PAGE ___ OF ___

Damage Incident 032

Item 77: Damaged shell plating and internals port side, frames 61-65 3rd and 4th strake below shear in way of fuel oil settling tank.

Tank	Frames	Capacity
Fuel Oil Settling Tank (P)	61-65	45 tonnes

Tanks to open up, gas free and clean for hot work. Two manhole lids to remove for access and refit with new jointing.

Allow for the following renewals:-

4 x frames 4.5 metres long x 240mm x 10.5mm bulb. bar. C/F MC 10 x 28.5# [= 1683#
1 x section of stringer plate approx. size 3.2metres by 1 metre x 8mm - 161#

Shell plating, allow for renewal of 13.5mm thick plate, 3.2 metres x 4 metres. 138 □' = 3523#

Make and break staging for access.

Tank to pressure test on completion of repairs. - 24 hr

All renewed steel to be shot blasted to SA.2.5 primed and painted. - 24 hr/350

BID NOTE: RIVITS EXTRA, IF REQ'D.

STAGING 30' x 2 @ 1½/5

OPEN CLOSE 2 m/H @ 8/50

CLEAN - ALLSTATE

CERTS

LIGHTS/VENTIL

TOTAL 5367# @ 8#/hr

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
											90					90	300		
							16									16	100		
																		1580	
																		150	
									2					4		6	20		
							655								16	671	2200		
							24									24	—		
			24													24	350		
TOTAL 77			24				695		2		90			4	16	831	2970	1730	

NWMAR130560

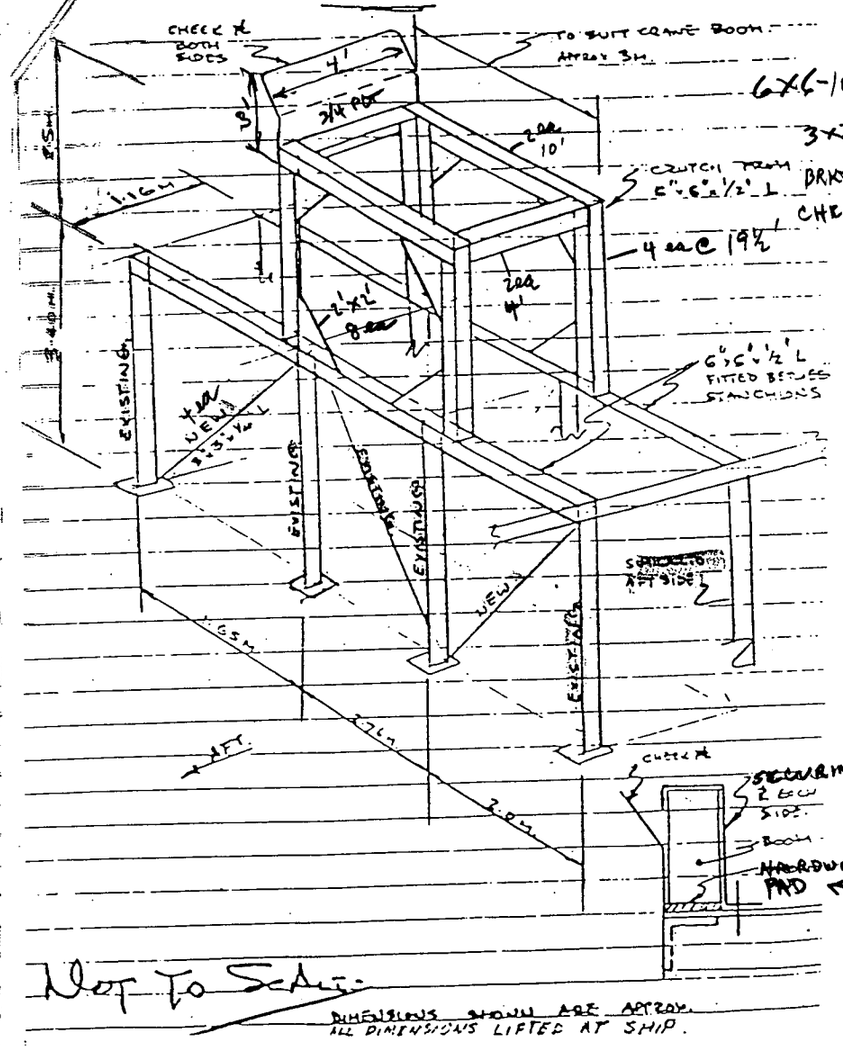
NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY RW PAGE ____ OF ____ DATE: 5/5/97

FABINSHOP & INSTALL ON SHIP

ITEM 78

CRANE BOOM CRUTCH - PROPOSAL.



6x6-108'L = 2117#

3x3x¼L-48' = 235#

CRUTCH FROM BRKTS — 327#

CHECK PLTS — 735#

3414#

@ 20#/hr

FIG TO USE EXIST

Not To Scale.

DIMENSIONS SHOWN ARE APPROX.
ALL DIMENSIONS LIFTED AT SHIP.

CRUTCH TO BE LIFTED BY APPROX

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
171 hr							171									171	1366		
BLAST/PAINT		4	16													20	300		
CLEAN/PAINT			8													8	100		
STAGE - 6'x2 = 12 @ 1½/5											18					18	60		
TOTAL 78		4	24				171				18					217	1826		

NWMAR130561

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY RCW PAGE ____ OF ____ DATE: 5/5/92

Special Expenditure - Main Code 025

Item 78: Deck Crane

No.2 Hagglunds 36 ton slewing crane. The crane requires to have its boom stowing crutch modified to lift the height of the stowage position to approximately 11 metres above the deck, i.e. approximately 6 metres higher than presently stowed.

See drawing attached.

The final height to be checked in the yard but any variations from drawing would be minimal.

Make and break staging for access.

All steel to be shot blasted to SA.2.5 primed and painted.

SEE SKETCH FOR ESTIMATE PREVIOUS PAGE

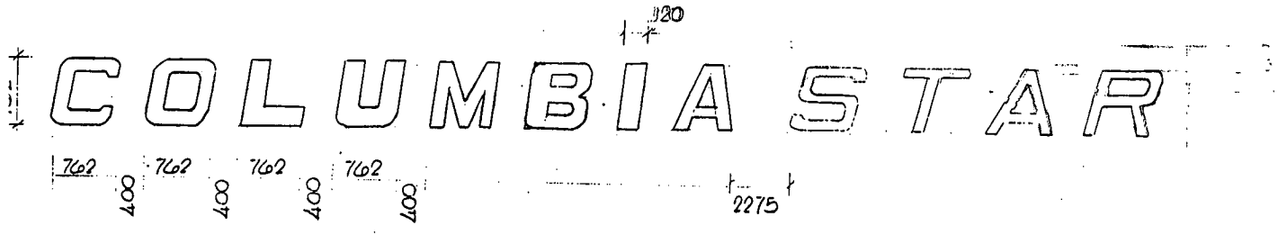
Item 79: Ship's name port and starboard bow, stern quarters and transome to be welded on in plate letters, see drawing enclosed for size of letters, also the port of registry. The old name "Abacus", the plate letters to be burnt off and steelwork ground smooth, including port of registry. Stage for access and remove on completion. All letters to be fully welded. (Please note all letters on bows and quarters slope towards the bows by 15 degrees).

FIG TO USE J.L.G.

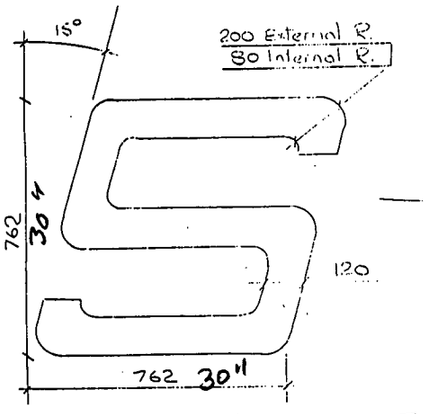
ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
AIR ARC & GRIND OFF 24 LETTERS @ 4							96									96	—		
SHOP FAB 42 LETTERS @ 2							84									84	722		
LAYOUT & INSTALL LETTERS 42 @ 6							252									252	50		
FIG. PAINTING IN UNDERWATER HULL ITEM																			
TOTAL 79							432									432	772	–	–

NWMAR130562

ITEM 79



NOTE: DRAWING IS NOT TO SCALE



DETAIL OF NAME ON BOW
(Also on Stern Quarters if agreed.)

BLUE STAR SHIP MANAGEMENT LTD.
20 QUEEN ELIZABETH ST.
LONDON SE1 2SL.

Letters Slope Forward.

NOTE: Drw viewed from Stb side N.B! Pt side opposite hand.

F16, 1/4" PLT

22 LETTERS @ 30x30 = 1404 #
2 + @ 4¾x30 = 20 #

NORTHWEST MARINE

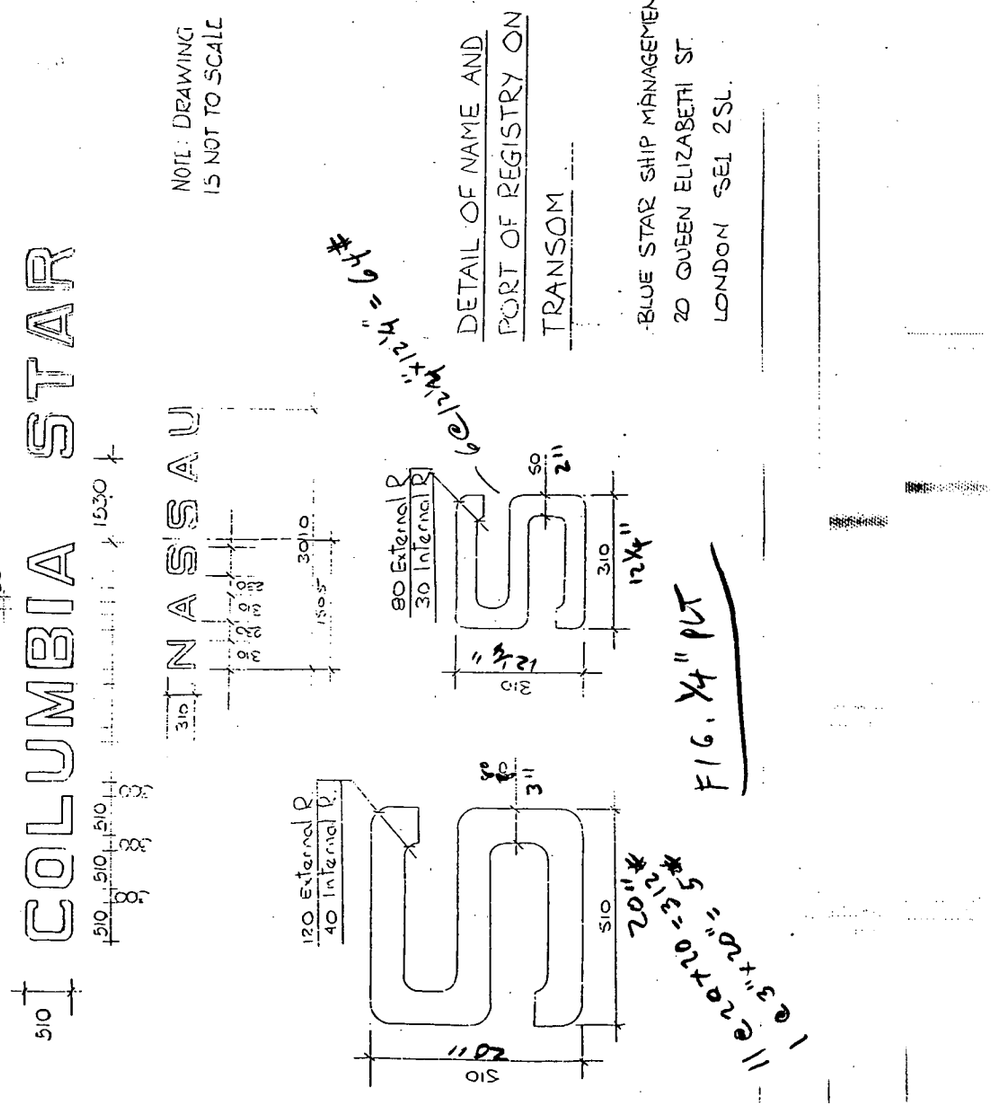
VESSEL: COLUMBIA STAR

EST. BY _____ DATE: _____

PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130563



NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130564

BIDNOTE FOR 1 THRU 4C:
(1) MINIMUM CHARGE - 1 SQUARE METER PER LOCATION
(2) STAGING EXTRA

SCHEDULE PRICE FOR REFIT WORK

(1) The following schedule prices are required to be quoted.

(2) Price for renewal of hold tank top insulation 200mm thick with 50mm top sealing composition/per square metre. FIG. 16 Rn + 646

(3) Price for renewal of shipside insulation with suitable sheathing 300mm thick insulation with 20mm faced board sheathing/per square metre. 12" THK FIG 14 Rn + 430

(4) (a) Price for renewal of hatch coaming insulation 100mm thick mineral wool with 1.5mm thick galv. sheathing/timer grounds etc. Price per M2. 4" THK FIG 10 Rn + 140

(b) Price for renewal of hatch coaming insulation 200mm thick mineral wool with 1.5mm thick galv. sheathing/timer grounds etc. Price per M2. 8" THK - FIG 14 Rn + 280

(c) Price for renewal of hatch coaming insulation 400mm thick mineral wool with 1.5mm thick galv. sheathing/timer grounds etc. Price per M2. 16" THK FIG 16 Rn + 560

(5) Price for tank cleaning for repair work DO tank/per ton. ALLSTATE QUOTE

(6) Price for tank cleaning for repair work ballast tank/per ton.

(7) (a) Price for tank cleaning for repair work ballast tank/per ton.

(b) Price for tank cleaning for repair work - fresh water/per ton.

(c) Price for remove/dispose oily water per ton.

(d) Price for remove/dispose oil per ton.

(e) Price for remove/dispose oil/sludge per ton.

BID NOTE: FOR 5 THRU 7e, STAGING EXTRA

(8) Price for renewal of steelwork

A Shell/per kg without staging — SHAPED PLATE EXTRA
B ~~Shell/per kg with staging~~
~~Internals/per kg with staging~~ — STAGING: 6.56 Rn + 32.80 PER METER (1M. WIDE x 2.3M. LONG)
C Internals/per kg without staging SAME AS ATTACHED SHELL PLATE
NOTE: INTERNALS WITHOUT SHELL RENEWAL - EXTRA

(9) Price for renewal of pipework insulation based on 25/50/75/120/150/180 mm OD. Pipework/per metre. SEE ATTACHED SHEET

BID NOTE: ASBESTOS EXTRA.

(10) Renewal of steel pipes (per metre)

50mm - 100mm - 150mm - 200mm - 250mm bore
2" 4" 6" 8" 10"

SEE ATTACHED SHEET.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
											8	8				16	646		
											7	7				14	430		
4a												4		6		10	140		
4b												6		8		14	280		
4c												8		8		16	560		
5																—	—	13.52	26.73
6																—	—	27.33	—
7a																—	—	27.33	
7b																—	—	19.40	
7c																—	—	10.80	26.73
7d																—	—	10.80	26.73
7e																—	—	1864.00	—
8a																.49	1.10	PER KG.	
8b										STAGING						6.56	32.80	PER METER	
8c																.49	1.10	PER KG.	

NWMAR130565

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY ____ DATE: ____

UNIT PRICES

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
9	RENEWAL OF PIPEWORK INSULATION PER METER																				
	25mm 1" .85+15 x 3.28																	1.64	16.40		
	50mm 2" .9 + 18 x																	2.95	59.00		
	75mm 3" 1.0 + 20 x																	3.28	65.60		
	120mm 5" 1.2 + 25 x																	3.94	82.00		
	150mm 6" 1.4 + 30 x																	4.59	98.40		
	180mm 7" 1.6 + 35 x																	5.25	114.80		
	BID NOTE: ① MINIMUM CHARGE PER LOCATION – 1 METER																				
	② STAGING EXTRA																				

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NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: M.V. Columbia STAR EST. BY _____ DATE: 5-01-92

SAY - 3 fittings per 20' or 1 every 7' = .49 fitting per meter
Pipe price Times 3.281 = Pipe Price per meter + (Fittings x .49) = Cost per meter

BID NOTES: FOR 10 & 11

① STAGING EXTRA

② MINIMUM CHARGE PER LOCATION - 1 METER

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
	Schedule Price for Refit Work																				
#10	STEEL PIPE Per metre (weld)																				
	2" sch 40 $24 6.56 LD @ .4 / 2.59																	3	17		
	4" " 8 4 13.12 LD @ .5 / 2.29																	7	30		
	6" " 9 4 19.68 LD @ .6 / 2.34																	12	46		
	8" " 14 4 26.24 LD @ .75 / 2.86																	20	75		
	10" " 20 4 32.81 LD @ .75 / 3.51																	25	115		
	Pipe price per meter + (Fitting x .49) = Refit Price per meter																				
#11	YORCALBRO (PER METRE) (Silbraze) 1 wk availability W+O Supply																				
	2" $11 4 6.56 LD @ .4 / 6.86																	3	45		
	4" $22 4 13.12 LD @ .4 / 6.86																	5	90		
	6" $32 4 19.68 LD @ .5 / 7.83																	10	154		
	8" $43 4 26.24 LD @ .6 / 8.92																	16	234		
	10" $54 4 32.81 LD @ .7 / 10.61																	23	348		
	Pipe Price per meter + (SB Fitting $ + 15%) x .49 = Refit price per meter																				

NORTHWEST MARINE

PAGE ____ OF ____

UNIT PRICES

VESSEL: COLUMBIA STAR EST. BY ____ DATE: ____

(*) FOR STAGING FIGURE USING MANLIFTS AND ENTERING RENTAL COSTS FOR UNIT PRICES

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
12	PRICE PER M² FOR MECHANICALLY SCALING W/ PRIMER COAT																				
a)	UNDERWATER SHELL WITHOUT STAGING																	.46	.063	-	-
(*) b)	UNDERWATER SHELL WITH STAGING																	.46	.063	13.44	-
(*) c)	SHELL TOPSIDE AREA WITH STAGING																	.46	.063	18.82	-
d)	MAIN/FORECASTLE DECK PLATING																	.64	.063	-	-
13	PRICE PER M² FOR SHOT BLASTING TO SA 2.5 W/ ETCHING COAT																				
a)	UNDERWATER SHELL WITHOUT STAGING																	.45	5.41	-	.36
(*) b)	UNDERWATER SHELL WITH STAGING																	.45	5.41	13.44	.36
(*) c)	SHELL TOPSIDE AREA WITH STAGING																	.45	5.41	18.82	.36
d)	MAIN/FORECASTLE DECK PLATING																	.72	5.41	-	.36
14	PRICE PER M² FOR SAND SWEEPING																				
a)	UNDERWATER SHELL WITHOUT STAGING																	.086	.81	-	.06
(*) b)	UNDERWATER SHELL WITH STAGING																	.086	.81	2.69	.06
(*) c)	SHELL TOPSIDE AREA WITH STAGING																	.086	.81	3.77	.06
15	PRICE PER M² FOR COATING ONLY																				
a)	UNDERWATER SHELL WITHOUT STAGING FIG 125 ft² PER GAL COV.																	.052	.108	-	-
(*) b)	UNDERWATER SHELL WITH STAGING																	.052	.108	2.69	-
(*) c)	TOPSIDE AREA WITH STAGING																	.052	.108	3.77	-

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(11) Renewal of Yorcalbro pipe (per metre) } SEE ATTACHED

50mm - 100mm - 150mm - 200mm - 250mm bore
2" 4" 6" 8" 10"

(12) Price per m2 for Mechanically Scaling with Primer Coat.

(a) Shell underwater area without staging
(b) Shell underwater area with staging
(c) Shell topside area with staging
(d) Deck - main deck/forecastle deck plating

(13) Price per M2 for Shot Blasting to 2.5 SA with Etching Coat

(a) Shell underwater area without staging
(b) Shell underwater area with staging
(c) Shell topside area with staging
(d) Deck - Main Deck/Forecastle Deck Plating.

(14) Price per M2 for Sand Sweeping

(a) Shell underwater area without staging.
(b) Shell underwater area with staging.
(c) Shell topside area with staging.

(15) Price per M2 for Coating Only

(a) Shell underwater area without staging (per coat)
(b) Shell underwater area with staging (per coat)
(c) Shell topside area with staging (per coat)

} 12 THROUGH 15 UNITS .. SEE ATTACHED SHEET

(16) (a) Open up, clean, re-ring piston and close up
(b) Strip piston, fit Owners new crown, build up, pressure test and fit
(c) ME Liner to draw, fit Owners new 'O' rings and reift liner and test

(17) Price for Labour Rates as under

Skilled rate per hour	Daywork	Overtime
Semi-skilled rate per hour	Daywork	Overtime
Unskilled rate per hour	Daywork	Overtime

SKILLED LABOR RATE PER S.T. HOUR (17)
SKILLED LABOR RATE PER O.T. HOUR (17)
SEMI-SKILLED LABOR RATE PER S.T. HOUR (17)
SEMI-SKILLED LABOR RATE PER O.T. HOUR (17)
UNSKILLED LABOR RATE PER S.T. HOUR (17)
UNSKILLED LABOR RATE PER O.T. HOUR (17)

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
16 a																-	-	ACPO 2368	-
16 b																-	-	1029	-
16 c																-	-	740	-
(17)																1	-	-	-
(17)																1	-	-	-
(17)																1	-	-	-
(17)																1	-	-	-
(17)																1	-	-	-
(17)																1	-	-	-

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NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY (AV) DATE: 4-29/92 PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
01																-	-	-	-
(a)				16							48					64	240		
(b)							24									24	16		
(c)				24			40		4					8	32	108	866		
(d)							26									26	16		
(e)							6	4							6	16	7		
(f)			15				68								28	111	45		
(g)							400				40					440	360		
(h)							16									16	20		
(i)							4									4	10		

Survey Work - 013-001

Item 01: Hull examination and Survey

B.D. NOTE ASSUME LLOYDS SURVEY TO OWNERS ACCOUNT

As soon as practicable after dock is dry, docking survey to carry out in conjunction with Lloyds Register surveyor and attending Superintendent Engineer. Contractors Hull Repair Manager and Engine Repair Manager to be in attendance.

Survey w/c | 01

Item 02: Rudder - Semi balanced type blade area 25,78m^2 x 10.76 = 277.39 ft

(a) Rudder to stage, rudder wear down, rudder stock and bottom pintle clearances, jump bar clearances, all to check and record. These to be verified by Senior Engineer Officer.

Stage R/R (24' x 2/10) clearances - Ø

(b) Hand hole plates (2) to remove for access to bottom pintle, plates to fully reweld in position after recording clearances approx. size 670 x 640 x 14.5mm. x .003281 2' x 2' x 1/2" x (2)

R/R 8 ft of PL @ 3/2

(c) Access to rudder stock for recording clearances, one manhole lid in steering flat and one manhole lid on rudder trunk to remove, rudder trunk to clean free of grease and water, provide receptacles and dispose of same, rudder trunk to wipe clean. Gland to release and seals to remove for access, seals, gland and manhole lids to replace on completion.

Access + clearance 24/16
R/R (2) man hole 16/100
clean trunk + dispose 44/100
R/R seals 24/650
Ø

(d) Rudder stock nut and lower pintle nut closing plates to remove for access approx. size 750 x 500 x 14.5mm. x (2) PLS Rudder stock and pintle nut securing arrangement to check and nuts to hammer test for security. Access plates to refit with full welds.

Ø
(2 1/2' x 1 1/2' x 1/2") R/R 8 ft x 3/2
Ham. test 2/-

Allow for the following repairs to rudder to be carried out.

INFO

(e) Rudder drain plugs (2) to remove, rudder to drain and drain plugs to refit and rejoint on completion.

R/R plugs (2) @ 3/1
Drain 12/5
Ø

(f) Allow for rudder plating welded seams, butts and plug welds to be cleaned and carefully examined. Allow for veeing out and welding 4.5 metres of seams. x 3.281 = 48 ft x 9/16

clean seams 2 x 14/5
seams 8/-
"V" 15 FT x 4/2 + coat 1/1
Ø

(g) Allow to supply, fit and weld 4.5 sq.m. x 15mm doublers to rudder plating and 3 sq.m. x 15mm doubler plate to stern frame, old doubler plates to remove, all doubler plates to have suitable plug welds. Stern frame area to stage for access

32 ft

fit & weld 80 ft x 4/2
R.M.V. say 80 ft x 1/-
Stage ext. R/R 40/200
Ø

(h) Allow to fit doubler plate to rudder sole plate at forward end approx. size 500 x 300 x 14.5mm shaped to radius of sole plate. Sole plate to dress off where thinned.

(1 1/2' x 1' x 9/16") Buff 20 ft x 8/10
Ø

(i) Rudder jump bar to renew to restore clearances to 5mm if called for, approx. size 750 x 100 x 65mm. x 1 1/2 FT x 1 1/4" x 2 1/2"

4/10

NWMAR130570

Simplex Seal File No. 92/30

Tec Rep (S.T.I.) Tony DiBenedetto NY (718)631-1940
FAX (718)631-2033

R/T AIR	$ 1250
PART/PARTIAL	1040
(3) DAYS S/T	1560
(1) DAY OT	1000
(4) DAYS DISM/HOTEL/CAR	560
	$ 5,410.00

(j) All plug welds and welded seams around access plates to fill with a suitable compound and flush off smooth.

(k) Allow for rudder to be pressure tested to 2 psig three (3) times.

(l) Grease pump to operate and ensure grease supply to rudder stock bush and lower pintle is adequate.

Separate prices required sections (a) to (l) but include in Tender price.

Item 03: Full Tailshaft Survey

1.1 As soon as practicable after dock is dry rope guard to remove and tailshaft wear down to check. Ensure propeller is turned to the correct position before taking readings. In the absence of any references marks on propeller boss readings to be taken with No.1 main engine piston on T.D.C. Top and bottom readings to record and these to be verified by Senior Engineer Officer.

1.2 PROPELLER: - Type Schaffran 4 bladed marine keyless with pilgrim nut. Material Cu Ni bronze, calculated weight 18,400 Kgs. 40,572 lbs

Propeller to release, remove and remount as per instruction manual. On removal of propeller and withdrawing of tailshaft inboard, temporary wooden blanks to be fitted over stern tube and propeller boss as protection against grit blasting. Allow for 3 x blanks approx 800mm x 12mm.

1.3 Trailer bearing cover to remove, handrails, oil pipes and gratings in way to remove as necessary. All disturbed items, removed for access, to refit on completion of all work.

1.4 Intermediate shaft and bearing to release and remove to one side.

1.5 Inboard and outboard seals and anodes (8) to be renewed with owners supplied spares. All work in connection with dismounting and assembling of seals to be carried out by/under supervision of Simplex Seal representative.

1.6 Allow for machining of inner and outer chrome liners, these to be removed to workshop, calibrate to determine the amount to be machined off. New sizes to record.

Make - HDW Simplex
Type - Compact - dia 630mm

Separate price to be quoted for machining liners but include in tender price.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
(j)							16									16	50		
(K)							40									40	10		
(L)				6				6								12	25		
			15	46			640	10	4		88			8	66	877	1665		
1.1				4			8									12	-		
1.2																-	-		
				56		30	8									94	100		
				64		48										112	-		
											12					12	80		
1.3				42		10	32	24	6							114	50		
																-	-		
1.4				32		40										72	50		
1.5				48			12									60	20	5410	
1.6		2		8		6										16	25		
		2			4											6	10	1330	

Ø
Fig Rep Hand
Test (1) x 24 And (2) x 8
Grease
TENDER Item 02
Ø
RMV Rope Guard
Wear Down
Record/Verified
INFO
RIG/RMV-Prop.
With Draw Tail Shaft
Wood Blanks
Ø
R/R BRG.
R/R Interferences
Ø
Un-Bolt Intermediate
RIG
R/R Anodes (o/f) 8 x 1.5
Unbolt + Assy Seals (2) ea x 16/-
SUB Tec Rep. $ 5,410.00
Xport Liners to Shop + Mach. + Protect
Measure + Mic
Record
SUB Liners Separate Price → 4-5 Day Turn Around
Precision Equipment

NWMAR130571

1.7 On withdrawal of tailshaft, stern tube bush and shaft to clean. Shaft to calibrate in way of stern bush at seven equidistant points along the length of bearing area, four positions on the diameter, stern bush to calibrate similar positions to shaft bearing area. All readings to record and present to attending Superintendent.

Any bruising, scores or marks on shaft or stern tube white metal to dress up before refitting of shaft.

1.8 Taper end of shaft in way of taper transmitting area to check using an efficient crack detection method in the presence of Lloyd's Surveyor and attending Superintendent.

1.9 Refit shafts and mount and refit propeller, refit seals, all coupling bolts for intermediate shafts to dress up as necessary, refit and torque up. All disturbed and removed equipment for withdrawal of tailshaft to refit.

1.10 Chrome outer and inner liners to clock gauge for truth before refilling stern tube with oil and re-align as necessary to give minimum run out.

Stern tube to refill with oil from ships stock on completion of all work and static test to be carried out for a minimum period of 24 hours to ensure tightness of seals.

On completion of refitting tailshaft and propeller, top and bottom poker gauge readings to record, shaft to be in same position as when previous readings taken. Make and break necessary staging for access.

REFITTING OF PLUGS TO OUTER SEAL HOUSING TO BE SIGHTED AND CHECKED BY CHIEF ENGINEER.

1.11 Before refitting rope guard, rusty and scaled areas under rope guard to wire brush and apply three (3) coats anti-corrosion paint and two (2) coats of anti-fouling paint.

Ships staff to be notified when all intermediate shaft bearings are secured and these are to be drained and refilled with clean oil.

Propeller cone to refit and fill with tallow.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
1.7																			
Clean Stern Tube + shaft				8											16	24	100		
mic shaft + Bush				8												8	–		
Record / notify				4												4	–		
Dress Bush + shafts				8												8	20		
1.8 SUB NISBET NDT taper (MAG Particle)				2												2	–	300	
1.9 Install tail shaft / Install intermediate				96		80										176	200		
coupling bolts clean Dress				32												32	–		
Refit Prop./interferences				64		18	16	16	6							120	25		
wear Down mic verify																			
1.10 Refill + Adjust Run out (2') × 20/10				40												40	20		
[redacted]																			
[redacted] static test				12												12	10		
wear Down / Record				2												2	–		
R/R stage 32/50											32					32	50		
1.11 notify Eng Plug CK																–	–		
clean / Coat			4	2			10								4	20	20		
Install Rope Guard																			
Notify staff +																			
R/R oil (fin o/foil)				16				8							16	40	10		
Install cone / fill																			
				20												20	135		
Item 03																			
		4	4	568	4	232	86	48	12		144				36	1038	925	7040	

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY BG DATE: 4/28/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
Sec 1.1 Rmv Rope Guard + Take Reading				4			8									12	-		
1.2 Rmv Prop + Shafts				120		78	8				12					218	180		
1.5 inner seal				24			12									36	20	5410	
1.6 out liner ma		2		24		6										32	25	700	
1.8 not				2												2	-	300	
1.9 Refit Shafts + Prop				192		98	16	16	6							328	225		
1.10 Clock Gauge stage				54							32					86	80		
1.11 Instl Guard + Conf + Coat			4	38			10	8							20	80	165		
Item 04		2	4	458		182	54	24	6		44				20	794	695	6410	
2-5" @ 2.5/t mat'l				24			4									28	250		
2-4" @ 2.5/t mat'l				20			4									24	250		
2-1½" @ 2.5/t mat'l				4			4									8	80		
5" @ 1.25/16				13			1									14	160		
4" @ 1.25/16				5			1									6	64		
1½" @ 1.25/16				2			1									3	24		
1" @ 1.25/16				3			1									4	32		
6 @ 2/-				12												12	-		
6" @ 3/																			
Price after Insp.																			
Hi Reach 2men @ 8/750				16												16	300		
				99			16									115	1160		

Item 04: Modified Tailshaft Survey

For modified tailshaft survey carry out work as per Item 03. Section 1.1 and 1.2. Section 1.5. Inner seal to be bonded in situ and liner to reposition.

Section 1.6 outer liner only Section 1.8
Section 1.9 remount propeller and refit seals
Section 1.10 and Section 1.11

Tailshaft bearing clearance to be checked using feeler gauge and record.

Item 05 Sea Suction and Discharge Valves

Bid note Price Per vlv.

All ship side valves suction discharges port and starboard to open up for overhaul and survey. Allow for machining of valve lids, lapping in of valve lids to seats, valve packing and jointing material to renew, scupper valves to have leathers renewed. Allow for renewal of 20% studs and 60% nuts.

Scupper Lips — Allow 2.5 mh per inch

Allow for removal of the following valve sizes for machining of valve seats.

$ 250 — 5" 2 x 125mm valves
$ 250 — 4" 2 x 100mm valves
$ 80 — 1½" 2 x 40mm valves

All valve bodies and bonnets to be thoroughly cleaned and wire brushed internally and given three (3) coats of Apexion No.3. Engine room floor plates to remove and replace as necessary for access. Included Abv.

Allow for renewal of spindles for the following size valves. stems

1.25/16.00

2 x 125mm 5"
1 x 100mm 4"
1 x 40mm 1½"
2 x 25mm 1"

All butterfly valves to be operated for full opening and closing. Allow for freeing up one (1) 150mm and one (1) 250 valve. Any damage to vulcanised coating to be reported and dealt with as necessary. Bid note

Allow for staging or cherry picker for inspection of butterfly valves in situ from dock.

NWMAR130573

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: M.V. Columbia Star EST. BY BG DATE: 4/28/92

PAGE 14 Cont.

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
05	STARBOARD DISCHARGES Price Per VIV.																				
	BALLAST WTR. OVBD - 250mm - 10" BFly					30												30	55		
	BILGE O.B. CARGO 200mm - 8" BFly					24												24	44		
	AUX SW. 175 mm - 7" BFly					21												21	39		
	SEWAGE PLANT 150 mm - 6" Stopper					18												18	33		
	AIR Comp. S.W. 80mm. - 3" SDNR.					9												9	17		
	Boiler Blow Down 32mm 1¼ Cock 1¼"@3/5.50																				
	Fire Pump Chest																				
	EMERGENCY Fire Pump. 100mm 4" s/v 4"@3/5.50					12												12	22		
	EMERGENCY FIRE Pump Vent 32mm 1¼ s/v 1¼"@3/5.50					4												4	7		
	EMERGENCY FIRE Pump Air 25mm 1" s/v 1"@3/5.50					3												3	6		
						121												121	223		
	PAGE 1					99			16									115	1160		
	PAGE 2.					349												349	640		
	TOTAL: 05					569			16									585	2023		

NWMAR130574

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY BG. DATE: 4/28/92 PAGE ____ OF ____

SAY 3hr per inch / $5.50 IN Place

Price Per VlV

Sea Chest Port (Low Suction)

Valve	Size mm		Type
Air Vent	125	5"	Angle
Provision suction	40	1½"	Angle
A.C. S.W. Pump	150	6"	Butterfly
Main S.W. Suction	500	20"	Angle
Air Clearing Valve	25	1"	Angle
Evaporator S.W. Suction	100	4"	Butterfly

Price Per VlV

Sea Chest Starboard (High Suction)

Air Vent	125	5"	Angle
Aux. S.W. Pump	250	10"	Butterfly
Main S.W. Suction	500	20"	Butterfly
Air Clearing Valve	25	1	Angle
Fire Pump Suction	150	6"	Butterfly

Price Per vlv.

Port Discharges

Main S.W.	350	14"	Butterfly
Cargo refrig. S.W.	200	8"	Butterfly
Evaporator S.W.	100	4"	S.D.N.R.
A.C. S.W.	125	5"	S.D.N.R.
Aux. S.W.	100	4"	S.D.N.R.
O.W.S. Discharge	40	1½"	S.D.N.R.

Starboard Discharges

Ballast Water O.B.	250	Butterfly
Bilge O.B. Cargo	200	Butterfly
Aux. S.W.	175	Butterfly
Sewage Plant	150	Scupper Type
Air Comp. S.W.	80	S.D.N.R.
Boiler Blow Down	32	Cock

Fire Pump Chest (Port side tunnel recess)

Emergency Fire pump	100	S/V
Emergency Fire pump vent	32	S/V
Emergency Fire pump air cleaning	25	S/V

CONT. NEXT PAGE
(PRECEEDING PAGE)

Item 06: Port and starboard anchors to be lowered into dock bottom, cables to range and calibrate, and submit four (4) copies of calibration to attending Superintendent
A Engineer. Disconnect cable at bitter end and at short length adjacent to anchor and end for end cable. Reconnect outboard shackle, allow heating equipment for disconnecting shackles, allow 4 per cable.

Anchors and cables to high pressure water wash to remove all scale and rust. On completion of all work, cables to restow and mark at each shackle with seizing wire and white paint. Port and starboard swivels to check and make free.

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
5" @ 3/5.50				15												15	28		
1½" @ 3/5.50				5												5	8		
6" @ 3/5.50				18												18	33		
20" @ 3/5.50				60												60	110		
1" @ 3/5.50				3												3	6		
4" @ 3/5.50				12												12	22		
5" @ 3/5.50				15												15	28		
10" @ 3/5.50				30												30	55		
20" @ 3/5.50				60												60	110		
1" @ 3/5.50				3												3	6		
6" @ 3/5.50				18												18	33		
14 @ 3/5.50				42												42	77		
8 @ 3/5.50				24												24	44		
4 @ 3/5.50				12												12	22		
5 @ 3/5.50				15												15	28		
4 @ 3/5.50				12												12	22		
1½ @ 3/5.50				5												5	8		
Item 06. (A)			56			170									~~48~~	~~274~~	~~885~~		
See Attached Sheet 06.															24	250	805		
				349												349	640		

Attached Sheet 06.

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY [illegible] DATE: 4-30/92

ITEM	06 DESCRIPTION P/S Anchores	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
A	Range to Dock P/S Anchores							32										32	~~40~~		
	High Press. wtr / wash							8									48	56	230		
	Calibrate / Report							10										10	-		
	Disc Cable + End for Pins + Short length to Anchor							48										48	25		
	Reconn. out BRD. Shackle (Heat) (4) ea x 4/-							16										16	-		
	Mark EA Shackle w/wire + white Paint				16			8										24	30		
	P/S swivels to check + make free							16										16	10		
	Paint (2) coats AC x (2) Anchors = (4) x 6/45				24													24	180		
	(2) Coats of Kopside Grey x (2) Anchors (4) x 4/45				16													16	180		
	Reflow P/S							32										32	~~40~~		
	Item # 06. (A)				56			170									~~48~~	~~274~~	~~885~~		
																	24	250	805		
B	Chain Lockers Lift Grids								8									8	-		
	Clean Lockers - (2) x 40/100																80	80	200		
	Rmv of 1.5 cum of mud. x (2) ea Locker 19 bbl x 4/5																76	76	95		
	Scale — 50 m² per Locker x (2) = 1076 # @ 10 SF/HR x .05 #																108	108	54		
	Paint — " " " x (2) coats (stage)												48					48	240		
	2,152 # @ (150 # = 1 gal) = 15 gal @ 1.5/38.00				23													23	570		
	notify for survey				2													2	-		
	Close Grids (fig new gasket)								12									12	100		
	ADD Absorb in BBLS @ $100.00																	—	100		
	19 BBL's @ $25.00 EA																	—	475		
	Dispose of Paint Can's 15 gal x .1/1				2													2	15		
	Item # 06. (B)				27				~~20~~				48				~~24~~	~~257~~	~~1849~~		
									8								200	283	800		

NWMAR130576

Vessels Anchors and Chains as Follows:-

(a) Anchors (2) - weight 8.11 tons, material cast steel stockless.

(b) Chains - total length 11 shackles, extra high strength steel (U3) 68mm dia.

Anchors to be painted two (2) coats of AC and 2 coats of topside grey.

Chain lockers - grids to lift, and chain lockers to thoroughly clean out, allow for removal of 1.5 cubic metres of mud from each locker. Scale and paint to instruction of attending Superintendent Engineer. Allow for scaling and painting an area of 50 sq. metres per locker, and apply a suitable bitumastic based paint (yard supply), allow for 2 x coats.
Anchors, cables and chain lockers to be surveyed by Classification Society.
Separate price required for "A" and "B".

Item 07: Water Ballast Tanks and Fresh Water Tanks

The following water ballast tanks to open up, certify gas free for safe working and certificates to be placed adjacent to tank entries. Tanks to hose out with clean water and present for survey. Tanks to close up on completion with new joints, studs and nuts as required. (Note studs are fusion welded type to compensating ring). Allow for two manhole lids per tank to be removed, double bottom tanks, recess around tank manhole lids to scale, clean and apply (3) coats of anti-corrosive paint. Insulated plugs to lift out for access to manhole lids and replace on completion.

Tank	Ballast Water Tanks	Capacity
No.2 D.B. port	Frames 139-160	275 M.T.
No.2 D.B. stbd	" " "	" "
No.4 D.B. port	" 98-119	492 M.T.
No.4 D.B. stbd	" " "	" "
No.5 D.B. port	" 84-97	320 "
No.5 D.B. stbd	" " "	" "

Tank	Fresh Water Tanks	Capacity
No.5 port side	Frames 78-87	157 M.T.
No.5 stbd side	" " "	" "

Fresh water tanks to wash down for removal of any slime or sludge matter on stringer plates, frames etc. Allow for touching up approx. 12 sq.metres of epoxy coating per tank, allow for two coats. Areas to be dealt with to disc and power brush, allow staging for access. Portable pumps to supply for pumping out of tanks on completion of washing down.

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
Item 06. (B)			27				~~20~~				48				~~264~~	~~354~~	~~1849~~		
See Attached sheet 06.							8								200	283	800		
STAGE 72 VF @ 2/10											144					144	720		
R/R PLUGS & CVRS 18 @ 4/50							36				36					72	900		
CERTIFY GAS FREE																—	430		
VENTILATE 9 @ 8/-										36				36		72	—		
CLEAN & COAT 9 @ 36/16			18												360	378	973		
TEST - 9 @ 16/							144									144			
ITEM 07			18				180			36	180			36	360	810	3023		

COAT = 354 # = 2.75 #

NWMAR130577

Ventilation to supply and tanks to be kept moisture free during curing of epoxy coating.

Note: No tank is to be opened up without first obtaining permission from ship's Chief Officer or attending Owner's Superintendent.

Cleaning is only to be carried out after consultation with attending B.S.S.M. Superintendent.

No tank which has been opened up is to be closed without obtaining inspection and final approval from ship's Chief Officer.

Pressure testing of tanks to be carried out on completion. Allow for connecting up hoses and supply of water for re-ballasting tanks.

NORTHWEST MARINE

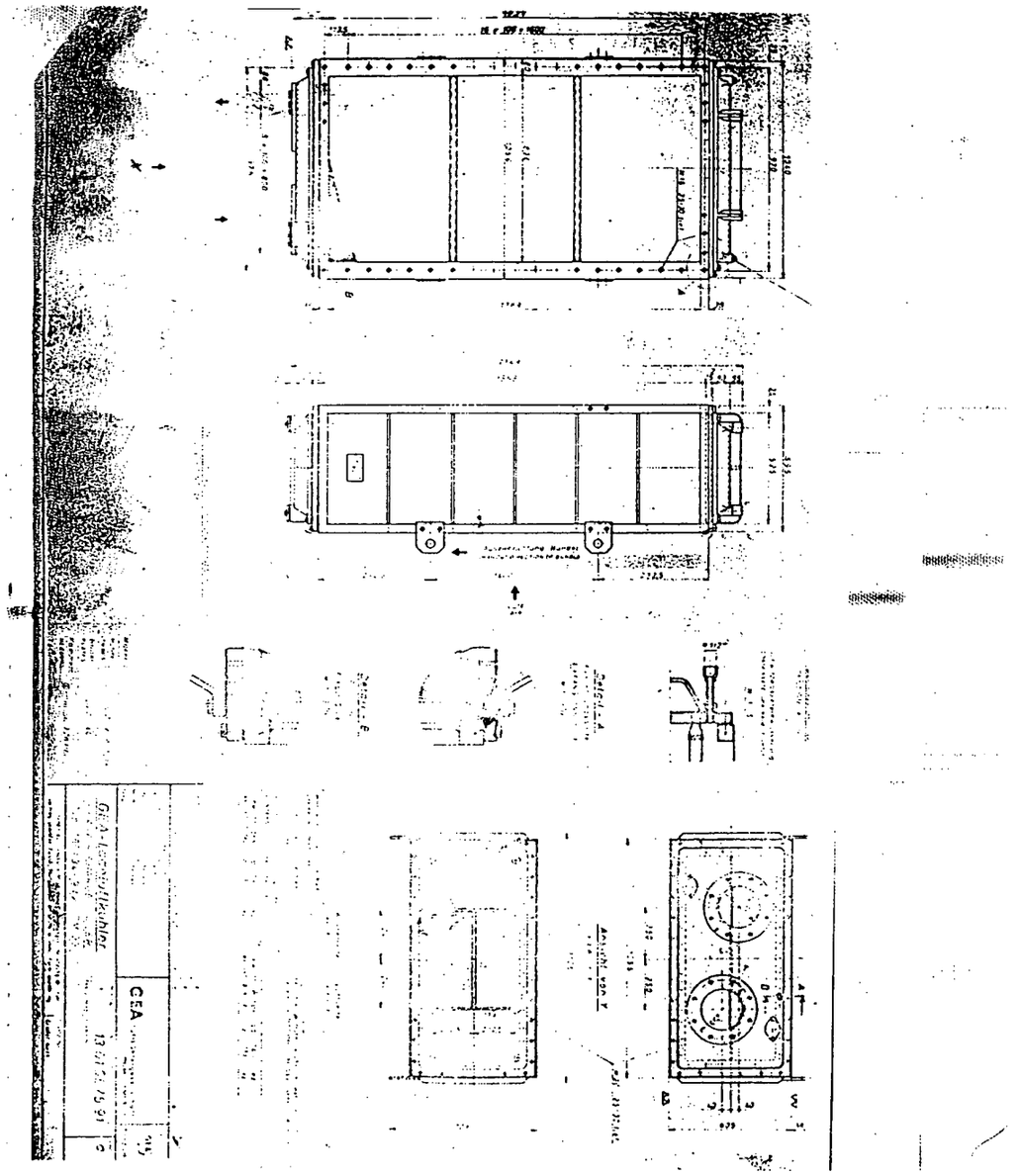
PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

I - 10
I - 14

MAIN ENGINE CHARGE AIR COOLERS
8 x 4 x 4



NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

MPS
09 — mn. Clean & BAL (2) — $ 825.00 EA
(INC IN AALBORG CISERV PORTLAND ORG. QUOTE)
ACPO

SUB's AALBORG CISERV
08 $
09

MAN: TRANSMARINE
S/C
08 $ } NO QUOTE RCVD
09

08A BID NOTE: ASSUME VESSEL WILL PROVIDE TENSIONING EQUIPMENT AND TWO PRESS BOLTS PER TIE ROD

Machinery Repair - Code 013-002

Item 08: Main engine tie rods to retension, release pressure, stretch and retensioned pressure to record, a total of twenty-two tie rods. All the above work to be carried out as per M.A.N. instruction manual. Crankshaft deflections and camshaft drive gear backlash to record before and after retensioning of tie rods. Press bolts in columns are to be slackened before retensioning of rods and to be tightened thereafter. Crankcase doors to open up for access to press bolts etc. and close up on completion. Retensioning of rods to be carried out in diagonal pairs working from centre of engine outwards.

A

Before retensioning of rods is carried out all rods to be ultrasonically tested for fractures top and bottom.

B

Should tie rod nut be found seized it will be necessary to split the nut by drilling. New nuts to be made and fitted to existing tie rods. There are washers beneath the nut and these may be found fractured.

Allow to split 4 off nuts. 4 x 1095 = 4380 (SUB)
Allow to renew 4 off washers.
Allow to make and fit 4 off new nuts, nut size 256mm OD by 155mm ID approx.

Note:- Retensioning of rods to be carried out whilst the vessel is afloat.

Item 09: Main Engine Turbo Chargers -Type MAN NA 57
(See attached drawing)

Forward and aft turbo chargers to open up for full overhaul.

Before removing rotors, tip clearance for turbine blading to be measured and recorded in the presence of the Chief Engineer.

Rotors, nozzle rings and casings to be thoroughly cleaned to the satisfaction of Owner's representative. Rotors (2) to be dynamically balanced. (ROTOR wt 356lbs EA) Turbine wt 221lbs EA

All bearings and seals to be renewed by the Owner's supplied parts.

Gas inlet and outlet casings to be ultrasonically checked to determine material thickness of casings.

Rotors to be replaced and blade tip clearances to record.

New shroud rings, Owner's supply, to be fitted if required. Shroud rings to be supplied undersize and to be machined to give correct blade tip clearance.

"CONT" IS → NOTE condition of turbine sealing ring for possible cavitation corrosion wear

17

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY AD

PAGE ___ OF ___

DATE: 5-1/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
Yard support sub:																-	-		
Rig -						32										32	-		
Clean up / Disposal															24	24	100		
misc. mtl Rags / cleaner																-	200		
Ma. support Ph / Shop				12	12											24	100		
SUB 4444 4380 8824																-	-	8824 ACPO	
Item 08				12	12	32									24	80	400	8824	-
Yard support sub:																-	-		
Rig						48										48	-		
Clean up / Disposal															8	8	20		
misc. mtl Rags / cleaner																-	100		
Ma. support Ph / shop / Protect				24	4											28	100		
SUB																-	-	10158 ACPO	
~~NISBET 300.00~~																			
Item 09				24	4	48									8	84	220	10158	

09A BID NOTE: ALLOWANCE FOR MACHINE & FITTING 1 (ONE) OWNER FURNISHED SHROUD RING

NWMAR130580

M.V. Columbia STAR
Bid 63-92

M.A.N. NA 57 ITEM 09

TURBO CHARGER - 3020 KILO /OR 6668 LBS

ROTOR = 161 KILO - 356 LBS
TURBINE = 100 KILO - 221 LBS
TOTAL 577

ROTOR BLADES (EXHAUST) - 2' DIAMETER - MAXIMUM
COMPRESSOR (INLET) LESS THAN 2' DIA.
NO MORE THAN 4' LONG

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: _____ EST. BY _____ DATE: _____

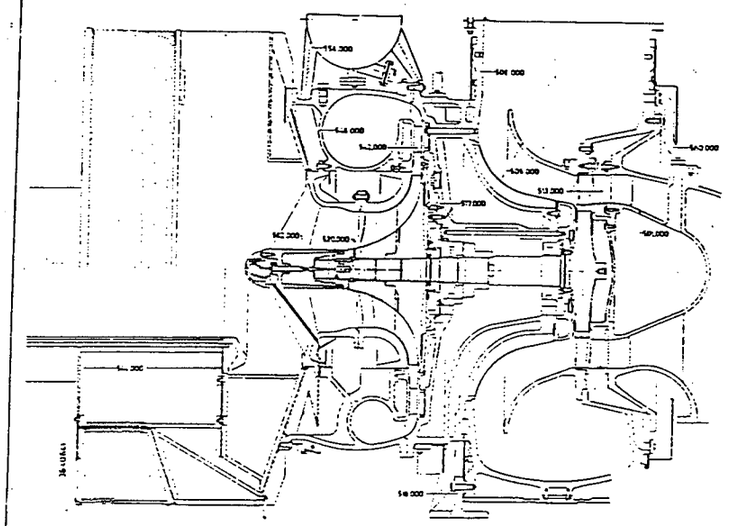
ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

M·A·N

ABGASTURBOLADER
EXHAUST TURBOCHARGER
TURBO-COMPRESSEUR
TURBOSOBREALIMENTADOR

NA57 | 500.01
ITEM 9. | 3

Bild 1 - Figure 1 - Figure 1 - Figura 1



Gruppe	Benennung	Designation	Designation	Designación
504.000	Turbinen-Zuströmgehäuse	Gas-admission casing	Corps d'admission de turbine	Caja de afluencia de la turbina
506.000	Turbinen-Abströmgehäuse	Gas-outlet casing	Corps d'échappement de turbine	Caja de evacuación de la turbina
508.000	Diffusor	Diffusor	Diffusor	Difusor
510.000	Turbinenleitapparat	Turbine nozzle ring	Distributeur de turbine	Distribuidor de gases de la turbina
517.000	Lagerung	Bearings	Logement	Cojinetes
518.000	Gehäusefuß	Casing foot	Pied de boîte	Pata de la caja
520.000	Läufer	Rotor	Rotor	Rotor
542.000	Maschinenleitapparat	Diffusor	Diffusor	Difusor
544.000	Schalldämpfer	Silencer	Silencieux	Silenciador
(545.000)	Ansauggehäuse	Air-intake casing	Boîte d'aspiration	Caja de aspiración
546.000	Verdichtergehäuse	Compressor casing	Corps de compresseur	Caja del compresor
554.000	Ölbehälter	Oil tank	Réservoir à huile	Tanque de aceite recipiente
582.000	Drehzahlmeßeinrichtung	Electronic speed measuring device	Dispositif électronique de mesure de régime	Instalación electronica para la medición del número de revoluciones
580.000	Entlüftungsleitung	Venting pipe	Tuyau de ventilation	Tubo de ventilación

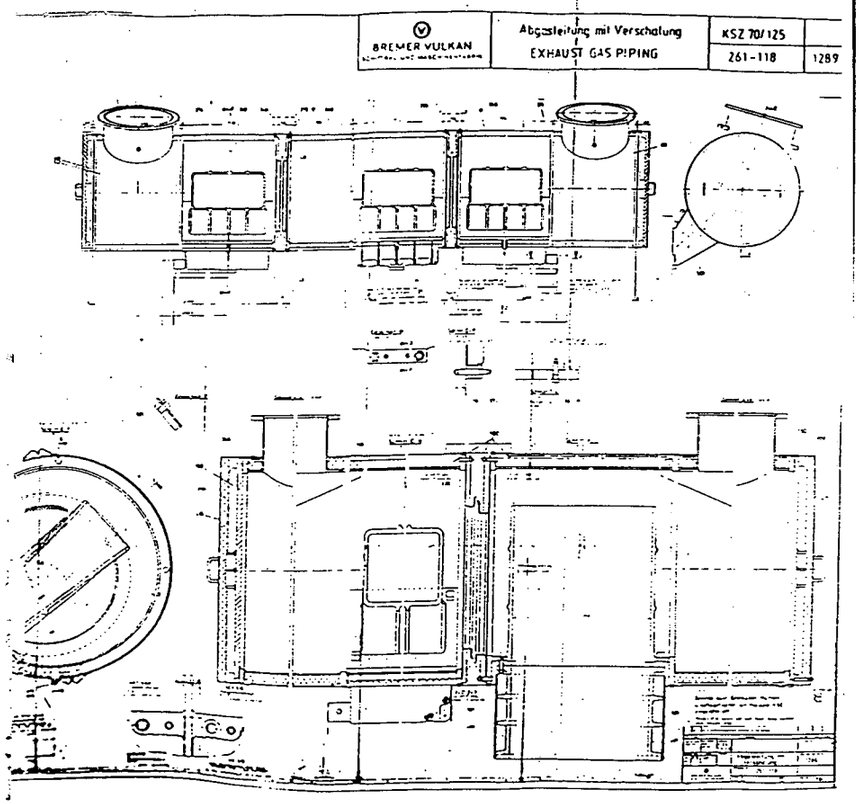
NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130582

ITEM 12

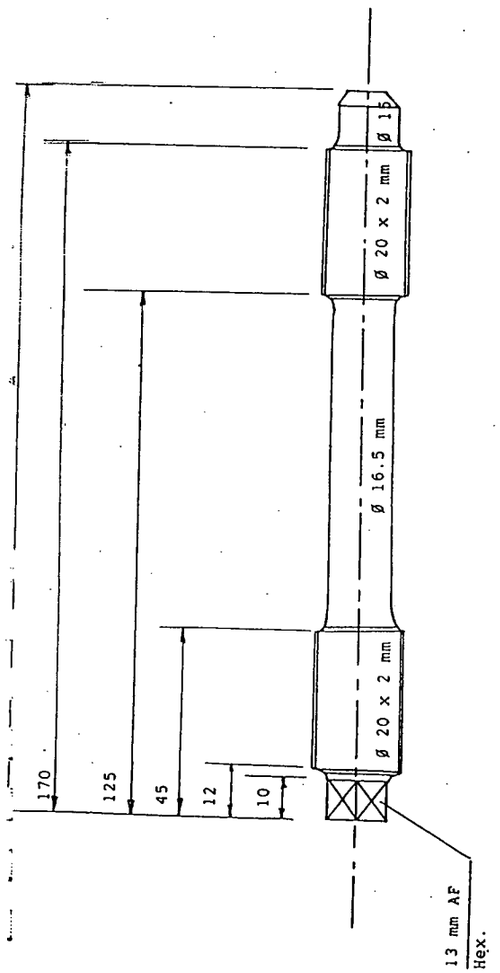


NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

ITEM 12



Modified Exhaust Trunking
Securing Stud.
Material HT Steel

Spacer 20.2 mm ID
35.0 mm OD
50.0 mm Long

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130584

SUBS

MPS #11 AUX mn. Eng. Blowers (Bal only) fig (2) @ $350.00 EA

OTS #11 OTS " " " " TOTAL @ $500.00 TOTAL

western #10 110 HRS (need ASSIST for Rig on/off) $6,070

PCE #10 clean (24 HRS) MTL $343.00 (TOTAL $1065.00) HYDRO 12 HRS MTL 174.00 (TOTAL $540.00)

Note:- Particular note to be made of condition of turbine sealing ring for possible cavitation/ corrosion wear.

All manuals for overhaul are on board the vessel.

(All) Item 10: Main Engine Charge Air Coolers FWD & AFT

Type: G.E.A. DM23 (see attached drawing) (2) EA

Forward and aft charge air coolers to release and remove ashore for ultrasonically or chemically cleaning on air side. Coolers to pressure test on completion and refit using new jointing and bolting material. Approx size of coolers: length 2,149mm (7 FT), width 1,056mm (3½ FT), depth 595mm (2 FT).

(All) Item 11: Auxiliary Main Engine Blowers

(OTS Subcontractor For Lift & Balancing)

Forward and aft auxiliary blowers, fan housing to remove, motor bearings 4 x SKF 6214 - C3 to renew. Motors to clean, motor rotor and fan to dynamically balance, blower casing, fan, and intake grids to clean. Blower and casings to refit.

Item 12: Main Engine Exhaust Trunking
Main Engine Type:- M.A.N. 9KSZ 70/125 BL

(Insulation Subcontractor)

Eight (8) bellows pieces to have lagging mats removed for inspection of bellows pieces. Exhaust trunking inspection covers to remove at fore and aft end of trunking. Bellows pieces to clean and wire brush internally and crack detect. Allow for welding fractures in all eight bellows pieces approx. 1.2 metres per piece. (Total 9.6 metres).

Allow to remove two (2(bellows pieces for rejointing, stage for access.

(Pads - 5½' x 8')

Exhaust trunking transition pieces, all eight transition pieces to release and rejoint with new bolting and jointing material. Supply 176 piece studs, nuts and spacer pieces as per sketch. Allow to renew a total of eight (8) lagging mats, approximately 2.5 metres long x 500 mm wide. (8.25' x 20" x 3.167)

All jointing and lagging material to be capable of withstanding 1,000°C and to be asbestos free. 44 ftwo x 15" Ft 2.5, 660 EA

~~Item 13: Port and starboard engine room vent fan intakes, grids to remove, total of six (6) grids, 4 x 1.3m x 2.3m and 2 x 2.5m x 2.3m. Repairs to carry out to acoustic panelling. Allow for renewal of six panels of perforated plate 3m x 2m each pop riveted to framework. Allow for renewal of 8m x 4m x 100mm insulation. Intake grids to refit on completion of all work. Allow staging for access.~~

(Insulation Subcontractor)

SEE NEXT SHEET

Handwritten estimate notes:

- R/R (2) EA x 40/75
- SUB PCE (206) 693-9955 clean/HYDRO — Pacific Coast Environmental In
- Item 10
- R/R (2) EA x 28/50
- R/R (4) EA x 4/25 — Brg. McGuire (238-1570) $24.94 EA on shelf
- BAL. OTS will PU/Return 682-7050 - Scott
- Item 11
- RMV LAGGING MATS $847 (SUB) — FAB & INSTALL NEW PADS 8 @ 16/660
- R/R ELGS - 8 @ 20/256 JOINTS
- CLEAN & MAGNAF - 8 @ 14/15
- STAGE 16 VF @ 2/10

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY ______ PAGE ___ OF ___ DATE: ______

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
				40		40										80	150		
		8				8										16	20	1605	
Item 10		8		40		48										96	170	1605	
				40		16										56	100		
					16											16	100		
																–	–		
																–	–	500	
Item 11				40	16	16										72	200	500	
												128				128	5280	847 (Lincoln C[illegible])	
						32		128								160	2048		
														80	32	112	120		
											32					32	160		
12						32		128			32	128		80	32	432	7608	847	–

Note:- Particular note to be made of condition of turbine sealing ring for possible cavitation/corrosion wear.

All manuals for overhaul are on board the vessel.

Item 10: Main Engine Charge Air Coolers

Type: G.E.A. DM23 (see attached drawing)

Forward and aft charge air coolers to release and remove ashore for ultrasonically or chemically cleaning on air side. Coolers to pressure test on completion and refit using new jointing and bolting material. Approx size of coolers: length 2,149mm, width 1,056mm, depth 595mm.

Item 11: Auxiliary Main Engine Blowers

Forward and aft auxiliary blowers, fan housing to remove, motor bearings 4 x SKF 6214 - C3 to renew. Motors to clean, motor rotor and fan to dynamically balance, blower casing, fan, and intake grids to clean. Blower and casings to refit. SEE PRECEDING PAGE

Item 12: Main Engine Exhaust Trunking
Main Engine Type:- M.A.N. 9KSZ 70/125 BL

Eight (8) bellows pieces to have lagging mats removed for inspection of bellows pieces. Exhaust trunking inspection covers to remove at fore and aft end of trunking. Bellows pieces to clean and wire brush internally and crack detect. Allow for welding fractures in all eight bellows pieces approx. 1.2 metres per piece. (Total 9.6 metres).

Allow to remove two (2(bellows pieces for rejointing, stage for access.

Exhaust trunking transition pieces, all eight transition pieces to release and rejoint with new bolting and jointing material. Supply 176 piece studs, nuts and spacer pieces as per sketch. Allow to renew a total of eight (8) lagging mats, approximately 2.5 metres long x 500 mm wide.

8.25' x 20"

All jointing and lagging material to be capable of withstanding 1,000°C and to be asbestos free.

Item 13: Port and starboard engine room vent fan intakes, grids to remove, total of six (6) grids, 4 x 1.3m x 2.3m and 2 x 2.5m x 2.3m. Repairs to carry out to acoustic panelling. Allow for renewal of six panels of perforated plate 3m x 2m each pop riveted to framework. Allow for renewal of 8m x 4m x 100mm insulation. Intake grids to refit on completion of all work. Allow staging for access.

ITEM 13 NOTE: ALLOWANCE FOR 12 ft OF STAGING AT EACH LOCATION (72 ft TOTAL)

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
13			24				80				144	104		188		540	3780	6995	-

NORTHWEST MARINE

PAGE ____ OF ____

ITEM 13 VENT FAN INTAKES

VESSEL: Columbia Star EST. BY SB DATE: 5/1/92

ITEM	DESCRIPTION	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
	FIG ALLOW 12' @ EACH LOCATION STAGE 6x12 = 72' x 2/10												144					144	720		
	RMV. GRIDS: 4 @ 1.3 M x 2.3 M (4'3" x 7'5") 4x6								24									24	-		
	2 @ 2.5 M x 2.3 M (8'3" x 7'5") 2x8								16									16	-		
	REMOVE PERFORATED PANELING ..6 @ 3M x 2M (10' x 6'/2') 390 ft² TOTAL 4 MEN x 1 SHIFT															32		32	-		
	REMOVE INSULATION .. 8 M x 4 M x 100M (26.25' x 13.125' x 4" THICK) 345 ft² TOTAL																			LINDELL - CRISTI 6995	
	INSTALL NEW ACOUSTIC INSULATION 345 ft² x 4" THICK @ .3/5⁰⁰ ft²													104				104	1725		
	INSTALL NEW PERFORATED PANELS 390 ft² TOTAL @ .4/2⁵⁰ PER ft²															156		156	975		
	PREP, PRIME, & PAINT				24													24	120		
	REFIT GRIDS 4x6/35 2x8/50								40									40	240		
					24				80				144	104		188		540	3780	6995	-

NWMAR130587

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY BG. DATE: 5-01-92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
Disc/ Recon. Gears 4a 8/-				32												32	—		
R/R vlvs 4@ 4/								16								16	2240		
R/R PPG. 22LD@ 1/								22								22	228		
14 —				32				38								70	2468		
							16				32					48	180	ALLSTATE 14640	
						24			120							144	200		
			2				24								6	32	50	JIGGS 840	
TOTAL 15			2			24	40		120		32				6	224	430	15480	-
16			28			16	248	28	12			26		36		394	2020	-	-
											33					33	260		
												24				24	300		
																-	-	18625	
17											33	24				57	560	18625	

Item 14: Main Engine Charge Air Coolers (2)

Fred = Liberty vlvs - 560 EA.

Renew a total of four (4) isolating valves, charge air cooling water system.

Flanged butterfly valves DN 150 PN 16 Rubber lined GG20. Distance between flanges 210mm, right angle geared drive, 8 holes on 240mm P.C.D.

Renew inlet and outlet pipe bends to both coolers 200 - 150mm long radiused bends approx. 180mm dia. Material Cu ZN 20 AL.

Item 15: Repair H.O. Settling Tank. Engine Room Starboard Side - 3rd Deck Level.

Tank to open up, gas free and carry out local cleaning in way of repair. Certificate to issue for hot work. Tank capacity 129 tonnes, frames 57-69. Allow staging for access. Two sections of switchboard panels to remove in way of repair in control room and refit on completion. Allow for removal and relaying 3 metres by 0.5m of deck composition. Repairs to carry out to satisfaction of Class Surveyor and Owner's Superintendent. Tank to pressure test on completion of repairs.

Allow to remove and dispose of 4 tonnes sludge. ALLSTATE

Item 16: Brine Header Tanks

Sight GLASS 14.25
vlvs - 28.65
Switch -
Float -

The above header tank to be renewed due to internal corrosion. See attached drawing.
Material: mild steel.
The tank is insulated with 50mm of polyurethane slab insulation and sheathed over with galvanised sheathing.

The tank is mounted into the engine room funnel at 4th deck level. Allow for removal of gratings and ladders for access and refit on completion.

Tank may require to be made in two sections due to restricted access and weld sections in situ.

Item 17: Exhaust Gas Boiler

Type: Aalborg A02
Serial No.5628

W.P. 10.5 bar

Boiler to open up on gas side, all tubes (owner's supply) to be renewed. Tube plates to dress up on removal of tubes and crack detect, any fractures found to be ground out reweld and grind smooth. Tubes to expand one end to seal weld and re-expand.
Total number of tubes 372 OD 76.1 x 4 x 3373mm
Total number of stay tubes 93 OD 76.1 x 8 x 3383mm

Item 15 Bid Note ① No allowance for temporary power to circuits disturbed by removal & refit of switchboard panels

② Bid note: steel repairs priced when identified by owner.

Open/close 2 min. @ 8/50
Cleaning - Allstate
Flg 16 @ 2/5 = 32/80
Disc/ Recounder cables 4x8x2 = 64
Disass./Reassemble/Rin Swbd sections EL 56 RG 24
Removals: 16 @ 3 = 6 an + 50 disposal + paint
No repair specified
Air test - 24 an

Item 16 Note: Allowance for tank only (no external piping & cabling allowed)

(see worksheet)

Stage flg 26' @ 1.25/10
Misc Lag
Sub Fraser FBD

NWMAR130588

NORTHWEST MARINE

PAGE ____ OF ____

ITEM 16 BRINE HEADER TANKS

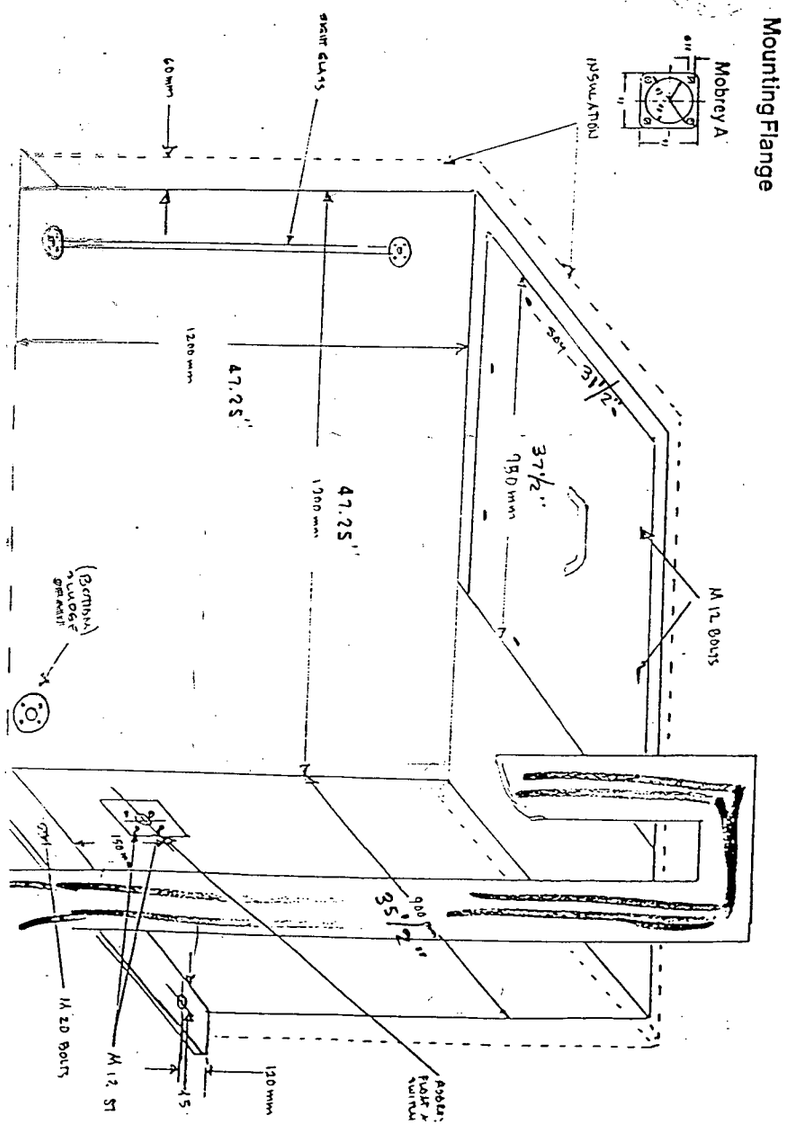
VESSEL: COLUMBIA STAR EST. BY SB DATE: 5/1/92

ITEM	DESCRIPTION	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
	R&R INTERFERENCE (GRATINGS & LADDERS, PIPING, CABLE, ETC.)						8	24	16	8							56	100		
	RMV & SCRAP SHEATHING (70 ft²)														8		8	-		
	RMV & SCRAP INSULATION												8				8	20		
	SCRAP & RMV TANK						8	16									24	-		
	NEW TANK FIG 15.3 # PL (3/8") @ 12/50 PER C 1712#							204									204	850		
	MATERIAL: PL 2 - 4' x 4' = 32 ft² 4 - 4' x 3' = 48 ft² 1 - 38" x 32" = 8.5 ft² } 88.5 ft² x 15.3# = 1354#																-	-		
	∠ BAR:																-	-		
7.2 ft	16' - 3" x 3" x 3/8" x (4 - 4' PCS) 115.2#																-	-		
7.2 ft	12' - 3" x 3" x 3/8" x (4 - 3' PCS) 86.4# } 358#																-	-		
9.8# ft	16' 5" x 3" x 3/8" 156.8#																-	-		
	1 - MTG FLG (FOR FLOAT ALARM SW.) 15.00																-	15		
	1 - FLG (FOR SLUDGE DRAIN) 10.00								2								2	10		
	2 - FLG (FOR SIGHT GLASS) 7.50								4								4	15		
	1 - FLOAT SWITCH (MOBREY) 250.00									4							4	250		
	1 - SIGHT GLASS 15.00								2								2	15		
	2 - VALVES 15.00								4								4	15		
	MISC. MOUNTING HARDWARE, GASKETS, ETC.																-	100		
	BLAST & PRIME & COAT			20													20	100		
	INSTALL INSULATION (70 ft²) .25/5.00 ft²												18				18	350		
	GALVANIZED SHEATHING (70 ft²) .4/2.00														28		28	140		
	COAT 8/40 TEST 4			8				4									12	40		
				28			16	248	28	12			26		36		394	2020	-	-

WORKSHEET FOR ITEM 16

NWMAR130589

ITEM 16



ORING EXPANSION TANK

FIG. 1

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130590

M/V COLUMBIA STAR

ITEM #17

BOILER SUB SPREAD SHEET

CHM / CLK-ULLMAN WESTERN BOILER FRASER BOILER WALASHEK END

	Initials	Date
Prepared By	AL	5/1/
Approved By		

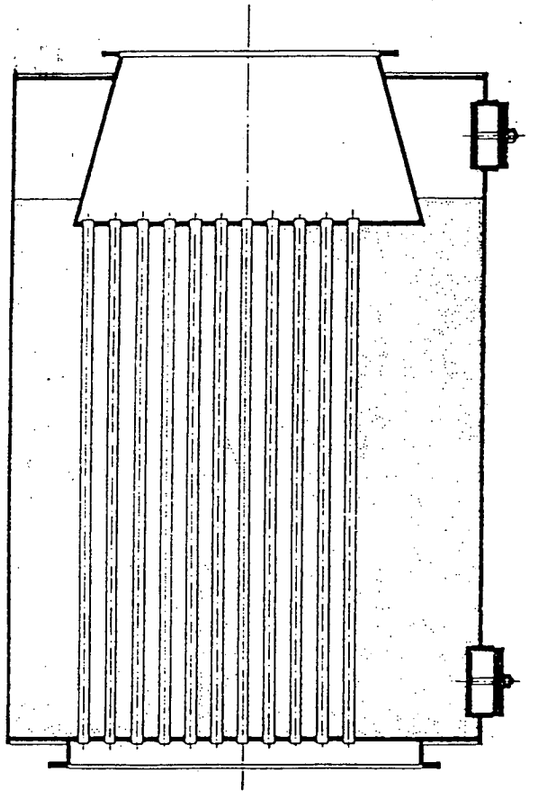
ITEM	DESCRIPTION	1 CAL DAYS	2 CONTINIOUS	3 CAL DAYS	4 CONTINOUS	5 CAL DAYS	6 CONTINOUS	7 CAL DAYS	8 CONTINOUS	9	10
17	Open Gas Sides										
	RMV 372 Tubes										
	RMV 93 Stay Tubes										
	Repair 10ea 1"Lg Cracks										
	INSTL Stay Tubes weld										
	EXP Both Ends										
	INSTL REMN. Tubes weld										
	1 End, EXP. 1 End										
	HYDRO BLR										
	Close Gas Sides										
	TOTALS –	24318.00	33730.00	22620		18625	21289	43635			
	DAYS	15	10			10	10				

4910 BUFF · 8910 GREEN · 4210 WHITE

NWMAR130591

AALBORG VÆRFT A/S

ITEM 17



VERTICAL SMOKE TUBE BOILER

TYPE AQ 2

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

DIESEL SUBS

AALBORG CISERV

#18 $720.00 HEADS IN SHOP

MAN: TRANSMARINE
$ 5/6/92
NO QUOTE RCVD

#19 (a) $6500.00 RMU COVERS
(b) $1506.00 RE-INSTL COVERS } S/T 2WKS (O/T 7 DAYS IS $11,375.00 OR ADD $4,875 TO TOTAL)

$10452.00 mach sealing faces in place 10m = 33'

$18,458.00

Note:- There is easy access to the top, but the bottom end is approx. 10m above main engine and will require staging for access.

Stay tubes seal welded at both ends.

Boiler to pressure test on completion of repairs.

All work to carry out to Classification Surveyor's and Owner's satisfaction.

Item 18: Spare Main Engine Liner

Main engine type M.A.N. 9 KSZ 70/125 BL. (fig for (1) EA LINER)

Liner to remove ashore from stowage rack and have liner flange sealing faces machined. Liner flange to support ring face and liner flange to cylinder cover faces. Liner to restow on completion.

Item 19: Main Engine - Type M.A.N. KSZ 70/125 BL

WE DO TRANSP. of cylinder HEADS 6 @ 2300#

Allow to release and remove. Six (6) M.E. cylinder covers and machine sealing faces of liner in situ using Chris Marine gear or similar. Cylinder covers to remove to work shop for machining of gas sealing faces. Units to be dealt with will be selected by Chief Engineer.

Item 20: Steering Gear - Type AEG RDC 315/57mk Rotary Vane.

The upper seals to be renewed with Owner's supplied spares, see drawing item 1,2,3.

Both shock absorbers to release, anchor bolts to remove. The preloading bush (item 18) to be inspected for wear or damage and if necessary to be replaced with Owner's supplied spares. For removal of shock absorber it will be necessary to release and remove locating wedges and bolts. Aft brackets to cut and remove for access (see drawing) on refitting shock absorber aft brackets to re-weld in place, fit securing bolts and taper locating wedges. Wedges to tack weld in place.

Steering gear to test on completion of all repairs.

Item 21: Main engine inner and outer fuel oil heaters located in port aft corner of engine room, to disconnect and remove ashore for retubing with Owner's supplied spare tubes. Number of tubes per heater, 239 approx. size 10mm O.D. x 1.4 mtrs long plus 435 metres of distributor chain. ——— IS INTERNAL FIN TYPE TUBES

Heater to pressure test on completion and refit using new jointing and bolting material.

SUB: CH/CLK-ULL
$ 8,760.00

Walashek
$5,960.00

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY (AN) DATE: 5-1/92

PAGE ___ OF ___

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
						12										12	-		
		8		6							6					20	100		
																-	-	720	
Item 18		8		6		12					6					32	100	720	
		16														16	100		
				16		16					16					48	100		
																-	-	18458	
Item 19		16		16		16					16					64	200	18458	
Item 20			6	92		10	28				6				8	150	90		
				48		32										80	150		
																-	-	5960	
Item 21				48		32										80	150	5960	

YARD SUPPORT (RIG)
MA / XPORT / PROTECT
SUB

Rig / ma / CA Protect + misc.
Sub -

R/R (2) ea units x 40/75
(SUB) REPAIR Walashek

NWMAR130593

NORTHWEST MARINE

PAGE ____ OF ____

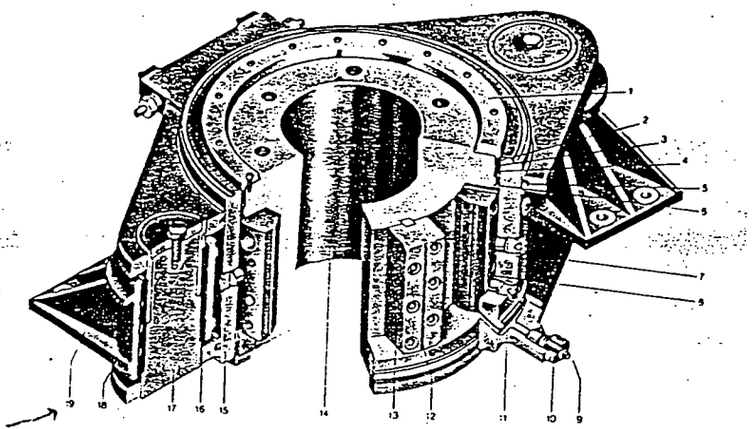
VESSEL: COLUMBIA STAR EST. BY [illegible] DATE: 5-1/92

ATTACHED SHEET #20 ROTARY VANE

ITEM	# 20 DESCRIPTION STR. GR. AER RDC 315/57m	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
	BLOCK & SUPPORT RUDDER FOR SAFETY							8					4					12	20		
	RELEASE (UN-BOLT) RMV. LOCKING WEDGES (DOWELS),																	–	–		
	& BOLTS –					16												16	–		
	CUT AFT BRACKETS & RMV [illegible]								8									8	10		
	RELEASE (UN-BOLT) SHOCK ABSORBERS					4												4	–		
	RMV ANCHOR BOLTS					4												4	–		
	INSP. PRELOADING BUSH (FOR WEAR & DAMAGE)					4												4	–		
	IF NECESSARY REPLACE BUSH W/OWNER SPARES					4												4	–		
	R/R UPPER SEALS W/OWNERS SPARES					16												16	–		
	REFIT SHOCK ABSORBERS					6												6	–		
	REINSTALL AFT BRACKETS (RE-WELD IN PLACE)								16									16	20		
	FIT SECURING BOLTS & DOWELS					16												16	5		
	TAC WELD IN PLACE								4									4	–		
	CLEAN MISC PARTS & AREA					8											8	16	20		
	FIG R/R OIL (BLEED & VENT) OWN SUPPLIED					8												8	–		
	FIG PAINT TOUCH UP				6													6	15		
	OP-TEST UNIT					6		2					2					10	–		
																		–	–		
NOTE	NO MENTION OF TEC. REP. FIG OWNER TO SUPPLY																	–	–		
	IF REQUIRED!																	–	–		
	ITEM # 20				6	92		10	28				6				8	150	90		

ITEM 20

Fig. 27. 1



cut + weld

fig Locating wedges ARE Dowel Bolts

English

Drehflügel-Rudermaschine
Typ RDZ (RDC)
Schnittbild

1 Druckring
2 Automatic-Druckring
3 Lippenring
4 Rundgummischnur
5 Oberer Ringkanal
6 Laufbuchse
7 Zylinderstift
8 Ansatzlag
9 Ventilspindel
10 Ventilflansch
11 Unterer Ringkanal
12 Dichtleiste
13 Flügel
14 Nabe
15 Gehäuse
16 Gummipuffer
17 Lagerbolzen
18 Spannbuchse
19 Lager

Rotary Vane Steering Gear
Type RDZ (RDC)
Cutaway view

1 Gland
2 Automatic Pressure Ring
3 Automatic Lip Ring
4 Rubber Support
5 Upper Manifold
6 Liner
7 Cylinder Dowel
8 Fixed Vanes (Stoppers)
9 Shut-Off Valve Spindle
10 Shut-Off Valve Flange
11 Lower Manifold
12 Steel Sealing Strip
13 Rotary Vane
14 Rotor
15 Stator
16 Shock Absorber
17 Anchor Bolt
18 Preloading Bush
19 Anchor Bracket

Pales Rotatives Pour Appareil
à Gouverner Type RDZ (RDC)
Section Coupe

1 Bague de pression
2 Joint de pression automatique
3 Joint à lèvre
4 Joint de caoutchouc rond
5 Canal circulaire supérieur
6 Bague de guidage
7 Goupille cylindrique
8 Butée
9 Tige de soupape
10 Bride de soupape
11 Canal circulaire inférieur
12 Languette d'étanchéité
13 Pale
14 Moyeu
15 Corps
16 Plot de caoutchouc
17 Axe de palier
18 Bague de serrage
19 Support

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130595

AEG-TELEFUNKEN	CONSTRUCTION DATA of Steering Gear Equipment RDC 315/57 MGK	H4-121 17o-7 E Blatt: - 1 - HH. 24.2.1976

ITEM 20

EQUIPMENT

Type	= RDC 315/57 MGK
Torque at rudderstock	= 70 Mpm
Control angle	= 2 x 35°
Electric supply	= 440 V, 60 Hz
Hydraulic scheme	= H3-421 944 E
General drawing	= H1-621 4907
Max. oil pressure in the gear	= 125 Bar

STEERING GEAR

Type	= RDC 315/57
Factory no.	= 214 1596
List of parts	= HL-721 48151 + HL-721 48055
Turning angle to stop	= 2 x 38°

MAIN PUMPS

Constant delivery pumps		Type	= A2F 107 R1 P5
Max. delivery	= 185 l/min	Speed	= 1750 r.p.m.
Factory no.	=		

MAIN PUMP MOTORS

Type =	AM180LV4	Design	= V1
Voltage =	440 V, 60 Hz	Enclos.	= Ip 44
Output =	40 KW, 50-15%	Speed	= 1750 r.p.m.
Factory no. =	20418807/2+4		

PRESSURE RELIEF VALVE

Type = NG 30 (Rexroth) adjusted to = 125 Bar

FILTER FOR RETURN VALVE

Type = RF 330 F10A1/M

SOLENOID VALVE

Type = 4 WEH22 G3.x/10A G24 NS2S0.118

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY ____ DATE: ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130596

ITEM 20

H4-121-17o-77 EN

Blatt: - 2 -

HYDRAULIC OIL

Quality : see shedule "Hydraulic fluids ..... ".
(HOB 1000.5.72 in this instruction manual.

Quantity:

Oil tank	=	800	litres
Pumps	=	---	"
Steering Gear	=	73	"
Pipes	=	22	"
Total		895	litres

STEERING STAND

Type =
Factory no. = Plath-Control

SWITCH BOX

Type = SRDf 02/25
Factory no. = 63856 0011

RUDDER ANGLE
INDICATING SYSTEM

Electric supply =
Transmitter =
Receiver = Not AEG-Delivery
Receiver =
Receiver =

ALARM SYSTEM

Electric supply =
Factory no. = --------

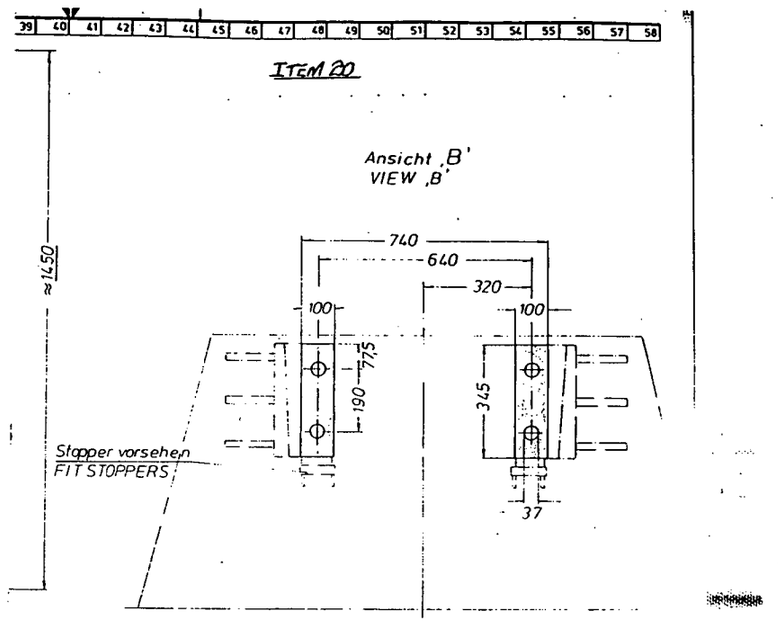
NORTHWEST MARINE

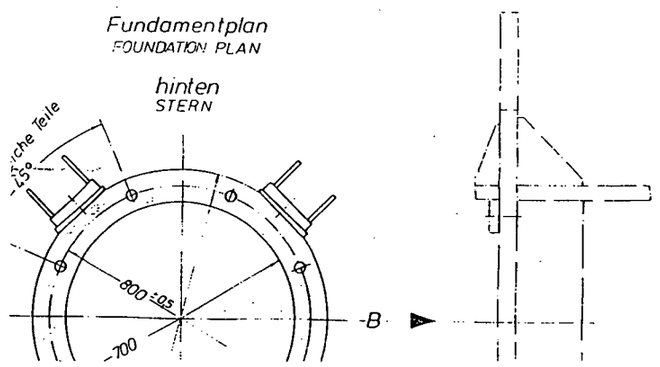
PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130597



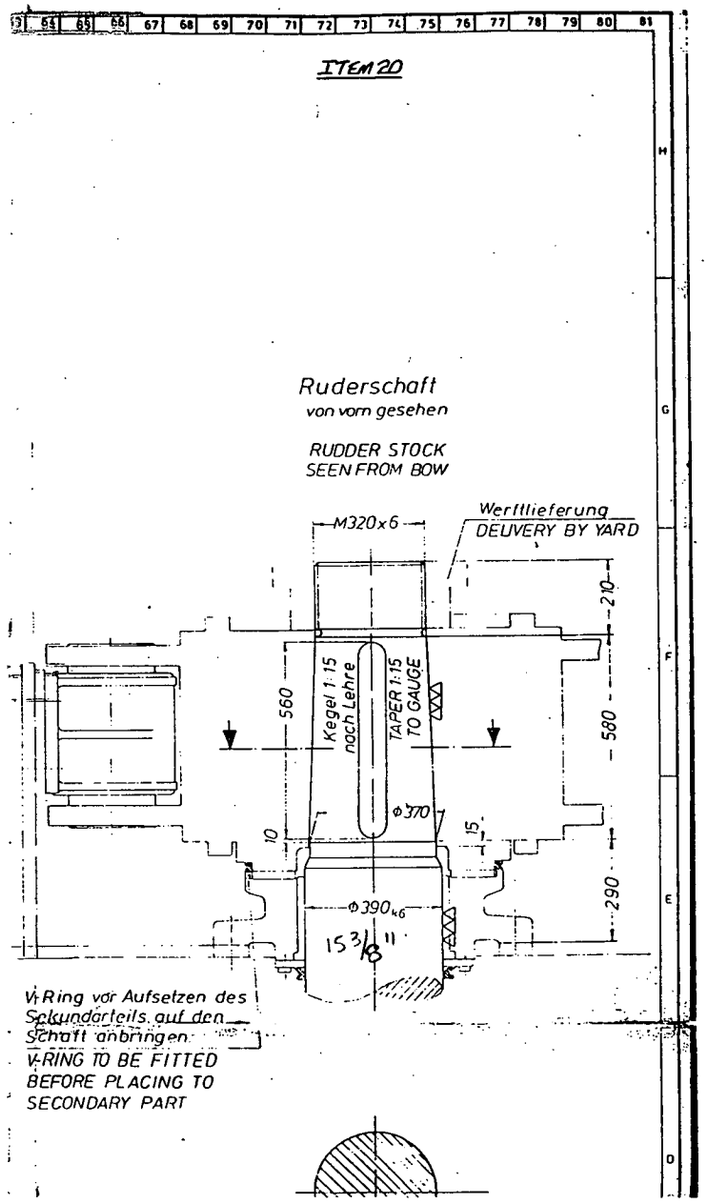


NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130598



NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130599

Item 22: Fresh Water Generator × 264.2

Type - Nyrex - Capacity $30m^3$/24 hrs. = 7,926 gal.

Evaporator to open up, evaporator section and condenser section, plate heaters/coolers to remove.

Internal coating where loose and flaking to be ground of to bare steel, areas of heavy pitting to build up by pad welding and grind flush. Allow for a total area to be welded 0.3sq.mtres. Allow for grinding and recoating an area of 0.8 sq.metres.

Existing internal coating is Flakeline 252, thickness of coating 1.0 - 1.2mm. Owners will supply coating and instructions for application.

Evaporator to close up on completion and prove condenser and evaporator sections tight before fitting dome.

R/e Lag (fig NON-AB)

(2) × 15/ misc (wood)

Grind to Bare Stl

Say 3½ # @ 12/15 + Like + Vent

Say 9 # @ 1.5/1-

See Below

.8 sq m

Say 9 # @ 2/1- o/f coating

close w/no Gskt

Prove - on/off Dome

.3 sq. mtres = 3.228 #

.8 sq. metres = 8.608 #

1.0mm = 1/32"

1.2mm = 3/64"

NORTHWEST MARINE

PAGE ___ OF ___

VESSEL: COLUMBIA STAR EST. BY [illegible] DATE: 5-1/92

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
												20				20	200		
				16		12						2				30	5		
															48	48	50		
fig 1/8" Deep									2					48		50	53		
														14		14	9		
																—	—		
			18													18	9		
				24		12										36	300		
				12		4		24							4	44	200		
Item 22			18	52		28		24	2			22		62	52	260	826		

NWMAR130600

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY RDW

PAGE ____ OF ____

DATE: 5/4/92

Deck Repairs - **Code 013-003** FIG. TO USE DRYDOCK BLOCKS LIKE LAST TIME.

Item 23: **Hatch Lid and Hatch Coaming Wear Down Pads** (CRANE/RIGGER IN SERVICE) TRANSPORT N/T ENOUGH BLOCKS FOR 10 LIDS

Type: MacGregor - Pontoons

All hatch lids to disconnect and remove ashore onto prepared seating blocks for renewal of all hatch lid and hatch coaming support pads so as to restore hatch lid skirt plate to coaming clearances to original. Total number of hatch lid pontoons to remove twenty (20).

FIG 2½" SQ. BAR 15¾" x 2⅜" x 2.17"

Approx. size of pads on coamings 400 x 60 x 55mm

Approx. size of pads on lids 300 x 30 x 100mm

FIG. 1¼" x 4" FLAT BARS → 11.81" x 1.18" x 4"

Hatch	Pads on Lids	Pads on Coaming
No.1 ford	8	8
No.1 aft	8	8
no.2 port,centre,stbd	40	40
No.3 " " "	40	40
No.4 " " "	40	40
No.5 " " "	40	40
No.6 " " "	40	40
No.7 " " "	22	22
Total	238 (4046#)	Total 238 (6,743#)
20 LIDS TOTAL	===	===

Cut away worn hatch lid and coaming support pads and make necessary preparation for full welding of new pads. Allow for handling of each lid off and on four (4) times. FIG. MOST OF THIS WILL BE IN TEMP. SERVICES SO - FIG. 1 EXTRA MAN.

Safety rails, stanchions and staging to erect in way of hatch coamings for carrying out of all work and remove on completion.

The following hatches and lids are insulated:

No.2	Port, Centre and Starboard	- 3
No.3	Port, Centre and Starboard	- 3
No.4	Port, Centre and Starboard	- 3
No.5	Centre	- 1
		7 TOTAL

BID NOTE: INSULATION RENEWAL EXTRA, IF REQUIRED.

Hatch Cover Dimensions

Hatch	Bay	Beam (mm)	Length (mm)	Weight (Tonnes)
1F	01	13,100 43' x	12,760 42'	16.0 - 18 SHORT TONS
1A	03	13,100	12,760	16.0
2C	05/07	10,750 35' x	13,068 42.8'	26.0 28.6 S.T.
2P/S		5,468 17.8' x	13,068 42.8'	14.65 EA 16 S.T.
3C	09/11	10,750	13,068	26.0
3P/S		5,468	13,068	14.65 EA

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
		40														40	—		
A. SCARF-OFF 476 PADS & GRIND @ 2hr							952									952	150		
B. SHOP FAB @ .2 X 476							96									96	2700		
C. INSTALL @ 3hr ea							1428									1428	300		
D. TEST FIT LIDS - 20 @ 8hr (RIGGERS BELOW)							160									160	—		
E. SCRIBE & GRIND TO PROPER HEIGHT. FIG 2hr ea X476							952									952	200		
FIG 4hr x 4 x 20 LIDS						320										320	—		
FIG. HANGING STAGING - 8 LOCATIONS PER HATCH X 16hr/SD = 128/400 - FIG. TO FAB 4 SETS & MOVE AROUND, x 4 512/1600							128				384					512	1600		
TOTAL (23)		40				320	3716				384					4460	4950		

NWMAR130601

Hatch	Bay	Beam (mm)	Length (mm)	Weight (Tonnes)
4C	13/15	10,750	13,068	26.0 28.6 S.T.
4P/S		5,468	13,068	14.65 EA
5C	17/19	10,750	13,068	26.0
5P/S		5,468	13,068	14.65 EA
6C	21/23	10,750	12,750 42'	23.0
6P/S		5,468	12,750	13.3 EA
7C	25	10,750 35'	6,580 21.43'	12.1
7P/S		5,468 17.8'	6,580 21.43'	5.85 EA

Item 24: Hatch Lid Re-Rubbering

All hatch lids whilst removed for repairs to have sealing rubber removed and renewed with Owner's supplied sealing rubber. All rubber retaining channels to clean out, grit blast to SA 2.5 and paint with two coats of primer paint before refitting of new rubber, approx. total size of channel 94mm x 50mm x 800 metres.

BLAST - 20'/hr x 2624' = 132hr + 20 TONS GRIT @ 70 #20 DISPOSAL
PRIME - 2hr x 20 = 40 x 2 COATS = 80hr + 700
3.7" x 2" x 2624' @ .3hr/#1 PER FT = 788hr + #2624

On completion of repairs to hatch lids and re-rubbering, all hatch covers to replace and chalk test. FIG 8hr x 20

Hatch covers to then harden down with the quick acting cleats. Allow for adjusting a total of 280 cleats. @ 1hr
All hatch covers to hose test to the satisfaction of owners representative and Class Surveyor. Allow for renewal of 20 quick acting cleats and saddles, Owner's supply. 4hr x 20 @ 4hr ea

Item 25: In conjunction with items 23 and 24, hatch coaming area in way of rubber sealing and compression bars to thoroughly scale, prime and paint including crown plate between port, centre and starboard hatch lids. Allow for mechanical scaling of 120 sq.metres. @ 1.3 = 156hr
Apply three coats of primer and two coats of grey. 5 COATS = 128hr/2000

Item 26: Hatch lids total of 20 lids to examine in way of skirt plate and channel bar. Allow for heating and fairing of damaged skirt plate edges and channel bar total of 12 metres. Allow for cropping out and renewal in total length of nine (9) metres in varying lengths of 70mm x 8mm skirt plate and channel bar. Insulation in way of repairs to remove and renew on completion. Allow for three (3) sq.metres in total of 120mm thick polyurethane reinforced foam. THIS WILL BE IN SMALL SECTIONS - SO - FIG #30/□" - SUB = #970

12m x 8hr = 96hr
FIG 12hr/M. = 108hr
SCALE/PAINT - 16/50

BID NOTE: MINIMUM FAIRING OR CHANNEL RENEWAL - 1 METER PER LOCATION.

Item 27: No.1 Hatch Lids

N/R 4 ACCESS PLTS @ 8/50 - 32/200
REMOVE PINS - 16hr

Hydraulic operated cross section for sealing between fore and aft lids to remove. Release four (4) hydraulic rams. Access plates (4) on top of lid to remove, and hinge pins for rams to release and remove. Cross piece and aft ~~action~~ SECTION of forward lid and forward

CONT'D

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY ____ DATE: ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
			132													132	1800		
			80													80	700		
							788									788	2624		
							160									160	—		
							280									280	—		
							160									160	200		
TOTAL 24			212				1388									1600	5324		
TOTAL 25			128												156	284	2000		
TOTAL 26							204									204	80	INSUL. 970	

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NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: 4/92

PAGE ____ OF ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
			40			8										48	310		
			30													30	900		
				32			32									64	200		
				48		12	42								8	110	86		
TOTAL 27			76	80		20	74								8	252	1496		
											96					96	480		
							8									8	-		
							24									24	230		
			8													8	40		
							24									24	20		
			4													4	20		
28			12				56				96					164	790	-	-
									8							8	10		
							4		6							10	225		
									4							4	40		
									10							10	20		
			2																
29			2				4		28							34	295	-	-

REMOVE SECT'S TO PIER – 8 hr
BLAST – FIG 43'W. × 3'H. × 4 PLACES = 516 □' @ 8 hr/□'
(6 COATS) PAINT – @ 5 GAL = 30 GAL @ 1/30

FROM PAGE 23

section of aft lid to shot blast to SA 2.5 and apply 4 by coats of primer and two full coats of finish grey. Cross section to re-rubber with Owner's supplied rubber, reconnect rams, and check and test cross section for operation, carry out chalk test and hose test on completion of repairs. Rams, bushes, etc. to protect when carrying out shot blasting.

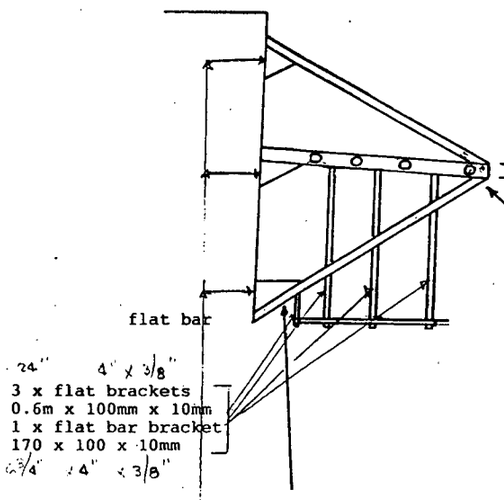
— 86 @ .3/1
— REMOVAL HRS × 1.5
— 16 hr
— 8/50

Item 28: Radio aerial brackets port and starboard side of funnel to renew. See sketch for approx. sizes, make and break staging for access.

NOTES ①

STAGING: ALLOWANCE PROVIDED FOR 45 VERT. FT OF STAGING (24' PER SIDE) 48 × 2/10 UP & DOWN

② NO ALLOWANCE TO RELEASE OR MAKE UP ANTENNAS OR WIRES



PIPE 334#
STEEL 115#
449#
÷2 = 224.5# EA.

4 x eyes for aerials

100mm dia 4"
heavy duty pipe
1 metre long 3'3"

24" 4" × 3/8"
3 x flat brackets
0.6m x 100mm x 10mm
1 x flat bar bracket
170 x 100 x 10mm
6 3/4" × 4" × 3/8"

2 x stay members
approx. 80mm dia 3"
heavy duty pipe
approx. 1.8m. long × 6'

8" 6" 3/8"
3 x triangular brackets 200 x 150 x 10mm
1 x round bar 25mm 1.0 metres.

DROP FOWS. SPRINGS

TEMPLATE / SHOP FAB

BLAST & COAT

FIT [illegible] ON SHIP

DISC & PULL BACK CABLES

REV EXISTING BOX & FASTENERS 2

FAB & FIT NEW BOX (FIGURE PURCHASE) 8/225

INSTALL [illegible] IN NEW BOX 4/40

INSTALL & CONNECT CABLES 10/20

T.U. PAINT

Item 29: CO2 alarm box for engine room, adjacent to entrance door to CO2 room, starboard side of main deck. New box to make and fit. Approx. dimensions 400 x 400 x 160mm with hinged cover. All necessary connections to release and re-connect.

APPROX 16" × 16" × 6 3/8" DEEP

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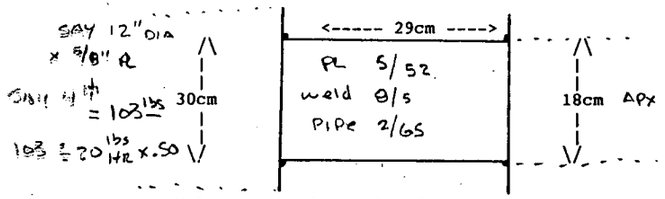
NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____ PAGE ____ OF ____

Item 30: Starboard stores crane S.W.L. 2.0 tons to have new drum fabricated and fitted. Approx. dimensions of drum.



Make and break staging for access.

Item 31: The following fairleads which have heavy grooving in them to be built up by welding and ground flush.

Forecastle — One (1) on the centre lead and two (2) port and starboard. Total 5 — 7@16hr

Aft Mooring Deck — One on the centre load and one on the starboard side. Total 2.

Item 32: Hatch lid forward and aft locating horns on hatch coamings to build up by welding where worn so as to stop fore and aft and athwartship movement, thus reducing acceleration of support pad wear, a total of forty (40) horns to be dealt with.

To reduce athwartship movement allow for two (2) locations on each horn to be built up by pad welding and grind smooth, each location is 60mm x 20mm x 6mm (total 80). ¼" – 2□" ea x ¼" THK x 80 = 160 □" @.5

To reduce fore and aft movement three (3) locations on each horn to build up, each location is 80mm x 20mm by 6mm (total 120), pad welding to grind smooth. 2½□" ea x ¼" THK x 120 = 300 □" @.5

Similar areas on guide attached to hatch lids to be built up and ground smooth. — 230 hr + 150

For access to coaming locating horns, staging to erect and remove on completion. PIC TO USE STAGING IN ITEM # 23

The above work to carry out in conjunction with items 23 and 25.

Item 33: Port and Starboard windlass machinery/tension winches, drive shaft seal to renew, gear box covers to release and remove, bearing keep to release and remove, winch drum and shaft to lift clear, dog clutch for engaging windlass drive to remove and owners new seals to fit dog clutch, shaft bearings all to refit, gear box — See Attached Sheet # 33

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
R/R stage 6' x 1/10											6					6	60		
R/R Cable + stage out unit						4			2							6	–		
OPEN DRUM ACCESS				3												3	–		
DISC + RMV EXIST DRUM				8												8	5		
RMV SHAFT + BUSHINGS				4												4	5		
FAB NEW DRUM							16									16	122		
FIG FAB NEW BUSH + INSTL				8	8											16	50		
REINSTALL ALL + Close + PAINT + NU/GSKT			4	11		4			2							21	100		
Item 30			4	34	8	8	16		4		6					80	342		
TOTAL 31							112									112	100		
							80									80	50		
							150									150	100		
							230									230	150		
PAINT			20													20	50		
TOTAL 32			20				460									460	350		
Item 33			6	168											4	178	230		

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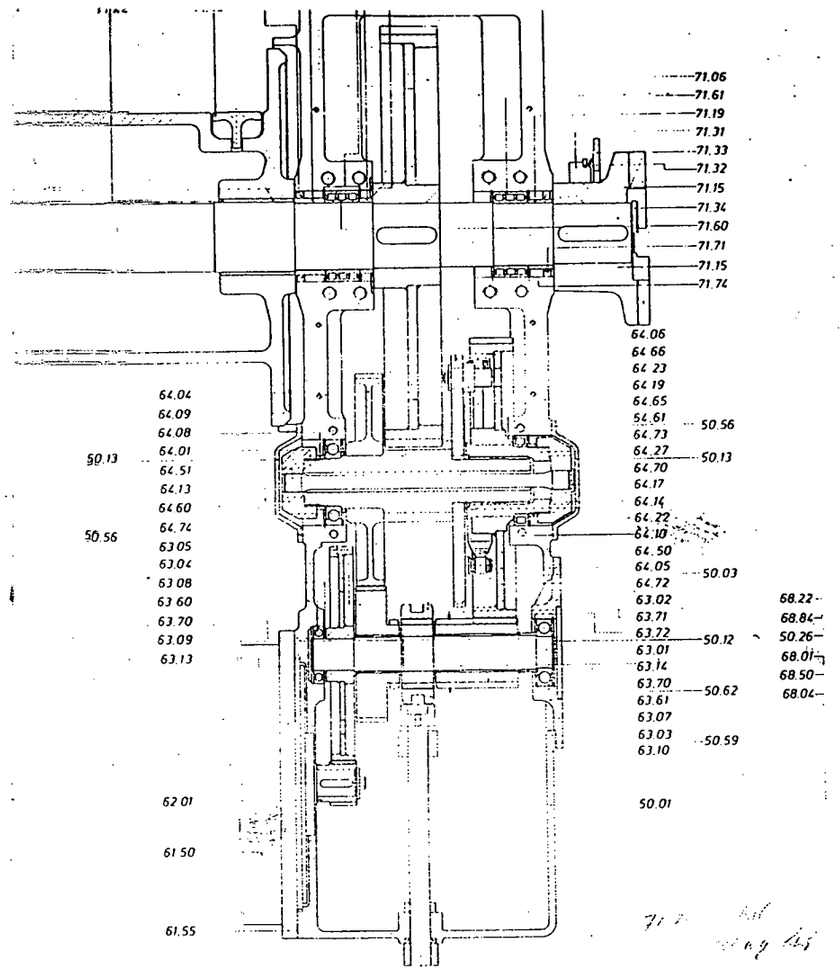
NORTHWEST MARINE

PAGE ____ OF ____

ATTACHED SHEET 33

VESSEL: M/V Columbia Star EST. BY A.J. DATE: 5-1/92

ITEM	# 33 DESCRIPTION P/S WINDLASS	ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
	Un-Bolt + Rmv (P/S) 2 ea Gr Box Covers (2) x	P/S				16												16	10		
	Un-Bolt + Rmv Brg Caps (6) ea x 3/-					18												18	-		
	Rig Drum + Shaft clear (2) ea x 2/-					4												4	-		
	Rmv Dog Clutch (fig to P/E Drum as interferences)					32												32	10		
	Rmv Exist Seals					8												8	-		
	Clean up all fit areas					8												8	10		
	Install new (o/f) seals					8												8	-		
	Refit Brg's					6												6	-		
	Reinstall all					60												60	50		
	Gr Box Covers new gskts					8												8	100		
	Clean up / touch up				6												4	10	50		
fig	Rig (Top side) included in services				6	168											4	178	230		
Note	Does not included oil clg out if required																				



NORTHWEST MARINE

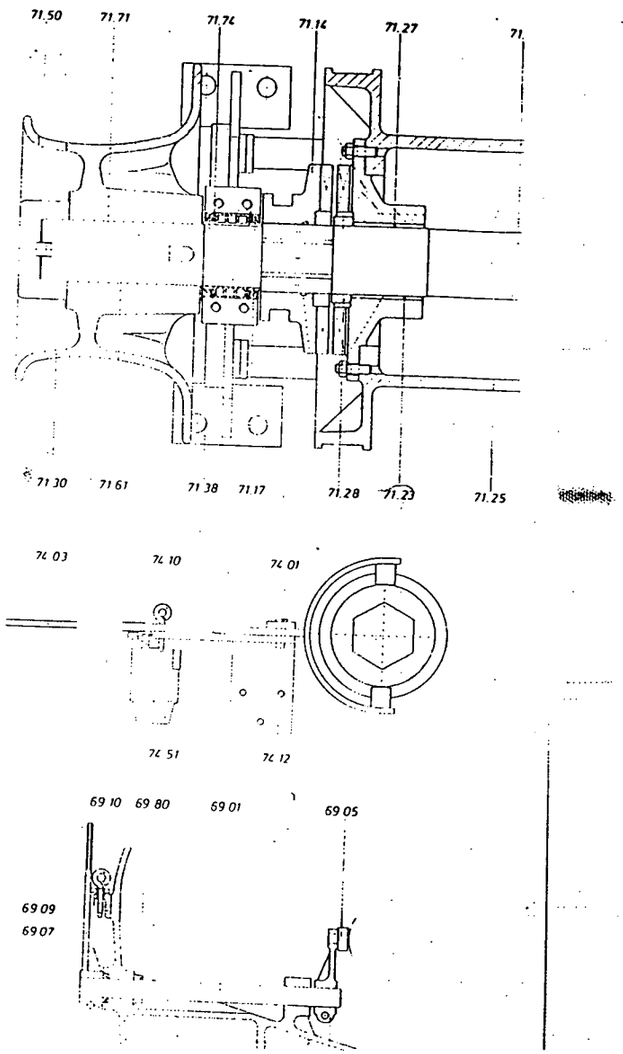
PAGE _____ OF _____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130606

ITEM 33



NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

NWMAR130607

covers to refit with new jointing material. See sketch showing radial packing ring to be renewed.

Type - Hatlapa
Size - 10 Tonnes

Item 34: No.2 and No.4 36 ton Hagglunds cargo cranes, upper and lower doors on back of cranes machinery housing to have sealing arrangement made watertight. Allow for cropping out and renewing 1.8 metres x 40mm x 8mm of compression bar in way of bottom of each door where corroded and wasted. (Total of 4 doors). All securing dogs to free. Stage for access.

Item 35: Schmersal Passenger Lift MOD.75

The following work to carry out to lift operating mechanism.

1. Cabin suspension ropes to renew 4 x 10mm dia owners supply. 3/8"
2. Friction sheave to renew for ships spare. Remove motor and drive gear for access and refit.
3. Drive motor couplings to renew. (Owners supply).
4. Lift to test S.W.L. 450 Kg and certificate to issue. 992.25 lbs

Item 36: The following water ballast tanks to open up and clean, certify gas free for safe working and certificates to be placed adjacent to tank entries.

Tank	Ballast Water Tanks	Capacity
No.6 deep tank port	Frames 21-44	320 tonnes
No.6 deep tank stbd	" 21-44	320 tonnes
No.3 side tank port	" 120-138	257 tonnes
No.3 side tank stbd	" 120-138	257 tonnes
No.2 side tank port	" 138-160	287 tonnes
No.2 side tank stbd	" 138-160	287 tonnes

Owners supplied anodes to weld to frames and stringers as indicated by attending Superintendent. Allow for welding twenty anodes per tank, approx. weight 23 Kg. Total number of anodes 120. Allow for temporary lighting and ventilation. Tank to close up on completion using new jointing material. Allow 2 x lids per tank.

BID NOTE: STAGING EXTRA, IF REQ'D.

Item 34:
STAGE R/R APX 40' x 2/10
R/R 24' x 2/2
(4) DRS = 5 DOGS EA =
free DOGS (20) DOGS x 2/1
PRIME + PAINT TOUCH UP (4) x 3/10
1.8m x 40mm x 8mm
Knife Edges 6' x 1½" x 5/16" (1.595 PFT)
24' x 1.595 = 38 lbs

LAND / TAG OUT + SECURE UNIT
1 RECEIVE O/F ROPES / R/R 3/8" ROPE TURN OVER OLD TO CREW
2 DISC - RMU MTR / RMU FRICTION SHEAVE - SEND OUT + RELINE REINSTALL O/F + TURN OVER TO SHIP
3 PULL EXIST COUPLING / CLEAN FIT + INSTALL O/F COUPLING
REINSTALL ALL
4 STATIC WT LOAD TEST 1000 lbs - LOAD / UNLOAD + CERT

OPEN CLOSE 12 M/H @ 8/50
CLEAN - ALL STATIC QUOTE
LIGHTS/VENT'L - 6 x 2/4
CERTS 150 x 5 x 20 =
120 ANODES @ 2

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
											80					80	400		
							48									48	48		
							40									40	20		
			12													12	40		
Item 34			12				88				80					180	508		
						2			2							4	-		
				4		8										12	—		
				16												16	10	150 EST.	
				12												12	5		
				8					2							10	10		
				4		8			4							16	150		
Item 35				44		18			8							70	175	150	
							96									96	600		
																		7830	
									12					24		36	100		
																		250	
							240									240	—		
TOTAL 36							336		12					24		372	700	8080	

NWMAR130608

R&R FAN MOTORS & IMPELLERS

OVHL 4 X 380 (SUB)

SEAL OFF LOWER END OF DUCT

SCALE INTERIOR OF DUCT

PAINT

Electrical Work - **Code 013-005**

Item 37: Port and starboard engine room supply fan motors to release and remove ashore, total number of motors four (4). Casings to hinge open for access.

Location: 3rd deck funnel
Make: A.E.G.
Type: AM 180 LV6 APPROX 20H.P
Volts: 440 - Amps: 27.5 - KW: 16 - RPM: 1175 (LTS & VENTILATION FIG. INCL IN ELECT. & SH MAINT.)
Bearings: SKF 6301 - C3 - Total 8

Motors to dismantle, motors to thoroughly clean, insulation to check, new bearings to supply and fit. Fan impeller to carefully mark and refit to its original motor. Motor casings to paint. Allow for baking and varnishing motors to improve insulation readings if required.

Trunking (4) to scale and paint, approx. size 1.6m by 1.2m dia. x 4 ft DIA. 5.25 ft 4 x 4 x 3.142 x 5.25 = 264 ft² (66 ft² EA)

Quadrennial Cargo Gear Survey - **Code 013-001**

Item 38: No.2 and 4 Hagglunds 36 ton cargo slewing cranes to be examined for the above survey and the following work to carry out: (2) ea

(a) Hoist wire and luffing wire to unreeve. (2) ea x 8/-

(b) Crane head, jib head, and hook unit sheaves pins and bearings to remove for examination. (2) x 16/5

(c) Crane jib bearings, end covers to remove for examination and condition. (2) x 6/-

(d) Allow for releasing and lifting crane jibs and renewing bearings with Owners supplied spares. (2) x 24/10

(e) All grease passages to bearings, sheaves, shafts, etc. to prove clear and pump up with grease on completion. (2) x 4/10

(f) No.4 crane, jib head and crane head sheaves to renew with Owners spares. (1) x 10/-

(g) No.2 and No.4 cranes - luffing wire and hoist wires to renew with Owners spare. (2) x 8/-

No.2 Luffing wire dia. 36mm x 152.0 metres 500' (1 3/8")
Hoist wire dia 38mm x 262.5 metres 861' (1 1/2")

No.4 Luffing wire dia. 36mm x 118.5 metres 389'
Hoist wire dia. 38mm x 213.0 metres 700'

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY ____ DATE: ____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
		4		96		48			32							180	200	-	
																-	-	1520	
											8				4	12	30		
															32	32	60		
			16													16	80		
37		4	16	96		48			32		8				36	240	370	1520	-
(a)						16										16	-		
(b)				24		4	4									32	10		
(c)				12												12	-		
																-	-		
(d)				32		16										48	20		
(e)				8												8	20		
																-	-		
(f)				5		5										10	-		
(g)						16										16	-		

NWMAR130609

S/T (5) DAYS $60.00 HR. $2400.
T/T (2) DAYS $60.00 HR $960.
Diem (7) DAYS $40 $280.
10% Expenses (xportation/car/Hotel) (6) DAY x $100 $600.
CAR RENTAL (7) DAYS x 50.00 $350.
10% ADM fee $95.
$4,685.00

HAGGLUNDS REP. (Redmond WA. Bo Kordel)
ph/fax (206)-868-5865 OR (201)-391-8930

(2) men x (5) DAYS ASSIT = 80 mh

HAGGLUND Quote
TEC REP

(h) Yard to arrange with local Hagglunds Engineer or an accredited agent, hydraulic engineer to attend on board and check out all hydraulics, seals, filters, limit switches, brakes, slewing ring bolts, etc. Allow for yard to arrange assistance of two men for a period of five (5) days to assist and work under supervision of attending Hagglunds engineer.

Stage on Item 34 fig ADD FOR MISC

(i) Cranes to stage as necessary for the above work.

(j) On completion of all necessary work for survey of cranes, weights to be made available and cranes to load test and certificates to issue and ships factory act book to sign. - fig CTG 786-0745 H. Billstein
Separate price required for items (a) to (j).

1st test on vessel $430.00
subsequent test (say 3) x $200.00
CTG trailer chg 15.00 per use = 30.00
Attendent $45.00 HR x 8 HR $360.00
fig yard support 24 HRS + $100 cert

Item 39: No.2 and 4 Hagglunds 36 ton slewing cranes to have their main electric motors released and removed ashore for complete overhaul and renewal of bearings. Motor to thoroughly clean, baking and varnishing to improve insulation readings.

Size of motor 170 K.W. FIG. APPROX 250 H.P.

DISC/RECONNECT/R&R/OVHL
OVHL 2 X 860 (SUB)

Item 40: Two (2) twenty foot (20') cargo spreaders and one (1) forty foot (40') cargo spreader to remove ashore and thoroughly examine. All locking dogs and sheaves to prove free and working, clean and recharge grease system. On completion of all work weights to be available and spreader to load test and certificates to issue and ships factory act book to sign.

3 @ 32 + 150
3 @ 8 HR

NORTHWEST MARINE

VESSEL: COLUMBIA STAR EST. BY _____ PAGE ____ OF ____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT
(h)				80												80	–	4685	
(i)											16					16	50		
j						24										24	100	1420	
39		4		80		24			24							132	100	1720	–
TOTAL 40				96		24										120	450		

Main electric motor, removal and installation

Introduction

Prepare the necessary tools and equipment, i.e. monorail complete with trolley and lifting yoke, hand tools, and slings. The removal of the electric motor calls for lifting tackles of at least 1 ton capacity.

Removing electric motor

Both lifting tackles are attached to the lifting eyes of the motor, located one on each side in order to guarantee balance when lifting.

- Park the jib.
- Stop crane, open main switch.
- Install monorail in its mountings at the upper level.
- Mount trolley, yoke and lifting tackle.
- Remove ventilator cowl and ventilator.
- Disconnect electric cables.
- Remove motor mounting screws.
- Attach hooks of lifting tackles at motor lifting eyes and lift motor vertically, exercise care to as not to damage the pinion and gears. Pull motor out along monorail.
  Lower motor on to a wood trestle placed on deck, deck, using another nearby crane.

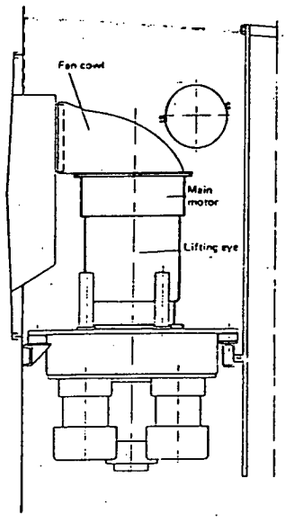


Fig. 1. Pump unit with electric motor

Installing electric motor

Lift motor into cranehouse and install in reverse order, make sure of correct direction of rotation.

Removing and installing feed pump motor

This operation is described under »Feed pumps».

Removing and installing oil cooler ventilator motor

This operation is described under »Oil coolers».

NORTHWEST MARINE

PAGE ____ OF ____

VESSEL: COLUMBIA STAR EST. BY _____ DATE: _____

ITEM	ADM	TR 1	PS 2	M 3	MS 3	RG 4	BM 5	PF 6	EL 7	CP 10	CA 12	LG 12	CO 14	SM 15	LA 17	HOURS	MAT'L	SUBS	POPT

From the desk of . . .

Joe Fustolo

Thought you would like to have these for your scrapbook!

Congratulations!

NWMAR130612

* = Finished Task

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

		WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
TASK 0001	*DRYDOCKING		0.00	4.00	0.0%	0%	0.00	4.00	0.00	0.00	0.00
	Craft 3		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
	Craft 5		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
TASK 0002	*SERVICES		64.00	113.50	177.0%	0%	0.00	104.00	9.50	0.00	0.00
	Craft 1		0.00	18.00	0.0%			18.00	0.00	0.00	0.00
	Craft 4		8.00	27.50	343.0%			20.00	7.50	0.00	0.00
	Craft 6		0.00	8.00	0.0%			8.00	0.00	0.00	0.00
	Craft 9		56.00	53.00	94.0%			51.00	2.00	0.00	0.00
	Craft 11		0.00	7.00	0.0%			7.00	0.00	0.00	0.00
TASK 0003	*CHEMIST		12.00	27.00	225.0%	0%	0.00	21.00	6.00	0.00	0.00
	Craft 10		12.00	27.00	225.0%			21.00	6.00	0.00	0.00
TASK 0004	*CLEANING & PAINTING		444.00	1117.00	251.0%	0%	0.00	762.50	342.50	12.00	0.00
	Craft 1		0.00	4.50	0.0%			4.00	0.50	0.00	0.00
	Craft 2		416.00	1044.50	251.0%			717.50	315.00	12.00	0.00
	Craft 4		28.00	62.00	221.0%			35.00	27.00	0.00	0.00
	Craft 6		0.00	6.00	0.0%			6.00	0.00	0.00	0.00
TASK 0004A	*HULL COATING - BOW AREA		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 0005	*SKEG, PORT & STBD		8.00	7.00	87.0%	0%	0.00	7.00	0.00	0.00	0.00
	Craft 5		8.00	7.00	87.0%			7.00	0.00	0.00	0.00
TASK 0005A	*STBD SKEG REPAIR		0.00	4.50	0.0%	0%	0.00	4.00	0.50	0.00	0.00
	Craft 5		0.00	4.50	0.0%			4.00	0.50	0.00	0.00
TASK 0006	*ANODES		48.00	43.50	90.0%	0%	0.00	17.00	26.50	0.00	0.00
	Craft 5		48.00	35.50	73.0%			9.00	26.50	0.00	0.00
	Craft 17		0.00	8.00	0.0%			8.00	0.00	0.00	0.00
TASK 0007	*MANHOLES		57.00	62.00	107.9%	0%	0.00	62.00	0.00	0.00	0.00
	Craft 5		57.00	56.00	98.0%			56.00	0.00	0.00	0.00
	Craft 17		0.00	6.00	0.0%			6.00	0.00	0.00	0.00
TASK 0007A	*MANHOLE COVER SOUNDING T		0.00	34.50	0.0%	0%	0.00	25.50	9.00	0.00	0.00
	Craft 5		0.00	34.50	0.0%			25.50	9.00	0.00	0.00
TASK 0008	*TOW BRIDLE INSPECTION		16.00	35.50	221.0%	0%	0.00	35.00	0.50	0.00	0.00
	Craft 4		16.00	35.50	221.0%			35.00	0.50	0.00	0.00
TASK 0008A	*TOWING BRIDLE RETRIEVEIN		0.00	6.00	0.0%	0%	0.00	0.00	6.00	0.00	0.00
	Craft 4		0.00	6.00	0.0%			0.00	6.00	0.00	0.00
TASK 0009	*SEA CHESTS		32.00	6.00	18.0%	0%	0.00	6.00	0.00	0.00	0.00

* = Finished Task

		WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
Job N4443	BARGE ALASKA	TASKS: ALL		CRAFT DETAIL: TASK		CRAFTS: ALL		MODS/SUBS DETAIL: N		FINISHED TASKS: Y	
	Craft 2		16.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 3		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
	Craft 5		16.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 17		0.00	4.00	0.0%			4.00	0.00	0.00	0.00
TASK 0010	*SEA VALVES		32.00	8.00	25.0%	0%	0.00	8.00	0.00	0.00	0.00
	Craft 3		32.00	2.00	6.0%			2.00	0.00	0.00	0.00
	Craft 17		0.00	6.00	0.0%			6.00	0.00	0.00	0.00
TASK 0011	*ANCHOR, CHAIN & LOCKER		72.00	115.50	160.0%	0%	0.00	91.00	24.50	0.00	0.00
	Craft 2		60.00	17.00	28.0%			8.00	9.00	0.00	0.00
	Craft 4		12.00	13.50	112.0%			13.00	0.50	0.00	0.00
	Craft 17		0.00	85.00	0.0%			70.00	15.00	0.00	0.00
TASK 0011A	*DETACHABLE LINK REPLACE		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 0013	*CARGO DECK HOUSE CLEANIN		945.00	2577.50	272.0%	0%	0.00	1328.00	1236.00	13.50	0.00
	Craft 1		16.00	4.00	25.0%			4.00	0.00	0.00	0.00
	Craft 2		799.00	1542.50	193.0%			652.00	877.50	13.00	0.00
	Craft 4		0.00	162.50	0.0%			122.00	40.50	0.00	0.00
	Craft 5		0.00	2.50	0.0%			0.00	2.50	0.00	0.00
	Craft 6		0.00	3.00	0.0%			0.00	3.00	0.00	0.00
	Craft 9		0.00	4.00	0.0%			0.00	4.00	0.00	0.00
	Craft 12		32.00	102.00	318.0%			90.00	12.00	0.00	0.00
	Craft 17		98.00	757.00	772.0%			460.00	296.50	0.50	0.00
TASK 0013A	*MAIN DECK COATING & NON-		299.00	391.00	130.0%	0%	0.00	294.00	96.50	0.50	0.00
	Craft 2		251.00	345.00	137.0%			259.00	85.50	0.50	0.00
	Craft 4		0.00	34.00	0.0%			25.00	9.00	0.00	0.00
	Craft 17		48.00	12.00	25.0%			10.00	2.00	0.00	0.00
TASK 0014	*STEEL REPAIRS		383.00	660.50	172.0%	0%	0.00	516.50	143.50	0.50	40.00
	Craft 2		0.00	4.00	0.0%			4.00	0.00	0.00	0.00
	Craft 4		46.00	37.00	80.0%			31.00	6.00	0.00	0.00
	Craft 5		257.00	439.00	170.0%			335.00	104.00	0.00	40.00
	Craft 7		32.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 12		0.00	50.00	0.0%			50.00	0.00	0.00	0.00
	Craft 15		48.00	15.00	31.0%			10.50	4.50	0.00	0.00
	Craft 17		0.00	115.50	0.0%			86.00	29.00	0.50	0.00
TASK 0014A	*ADDT'L STEEL REPAIR		0.00	186.50	0.0%	0%	0.00	99.00	87.50	0.00	0.00
	Craft 5		0.00	186.50	0.0%			99.00	87.50	0.00	0.00
TASK 0015	*JLG FOR OWNER		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 0016	*EMERGENCY TOW WIRE RENEW		0.00	97.50	0.0%	0%	0.00	82.00	15.50	0.00	0.00

* = Finished Task

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

		WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
	Craft 3		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
	Craft 4		0.00	29.00	0.0%			29.00	0.00	0.00	0.00
	Craft 5		0.00	43.50	0.0%			30.00	13.50	0.00	0.00
	Craft 12		0.00	23.00	0.0%			21.00	2.00	0.00	0.00
TASK 0017	*EMERGENCY GENERATOR F.O.		68.00	87.00	126.9%	0%	0.00	77.50	9.50	0.00	0.00
	Craft 2		8.00	4.00	50.0%			0.00	4.00	0.00	0.00
	Craft 3		0.00	4.50	0.0%			4.00	0.50	0.00	0.00
	Craft 4		0.00	3.00	0.0%			3.00	0.00	0.00	0.00
	Craft 6		60.00	67.50	112.0%			62.50	5.00	0.00	0.00
	Craft 17		0.00	8.00	0.0%			8.00	0.00	0.00	0.00
TASK 0018	*BLASTAWAY SUPPORT		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 2222	*PRE-PLANNING		14.00	8.00	57.0%	0%	0.00	8.00	0.00	0.00	0.00
	Craft 2		4.00	8.00	200.0%			8.00	0.00	0.00	0.00
	Craft 4		2.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 5		4.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 9		2.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 17		2.00	0.00	0.0%			0.00	0.00	0.00	0.00
TASK 9600	*SHIPCHECK, TRAVEL, OTHER		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 9700	*PORT USE/REHAB		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00

* = Finished Task

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

	WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
SUMMARY FOR JOB N4443		2494.00	5592.00	224.0%	0%	0.00	3552.00	2013.50	26.50	40.00
Craft 1		16.00	26.50	165.0%			26.00	0.50	0.00	0.00
Craft 2		1554.00	2965.00	190.0%			1648.50	1291.00	25.50	0.00
Craft 3		32.00	12.50	39.0%			12.00	0.50	0.00	0.00
Craft 4		112.00	410.00	366.0%			313.00	97.00	0.00	0.00
Craft 5		390.00	811.00	207.0%			567.50	243.50	0.00	40.00
Craft 6		60.00	84.50	140.0%			76.50	8.00	0.00	0.00
Craft 7		32.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 8		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 9		58.00	57.00	98.0%			51.00	6.00	0.00	0.00
Craft 10		12.00	27.00	225.0%			21.00	6.00	0.00	0.00
Craft 11		0.00	7.00	0.0%			7.00	0.00	0.00	0.00
Craft 12		32.00	175.00	546.0%			161.00	14.00	0.00	0.00
Craft 13		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 14		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 15		48.00	15.00	31.0%			10.50	4.50	0.00	0.00
Craft 16		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 17		148.00	1001.50	676.0%			658.00	342.50	1.00	0.00
Craft 18		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 19		0.00	0.00	0.0%			0.00	0.00	0.00	0.00

JOB REPORTING COMPLETE

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N   N  TTTTT  EEEEE  M   M  PPPP   L      EEEEE  DDDD
N   N    T    E      MM MM  P   P  L      E      D   D
NN  N    T    E      M M M  P   P  L      E      D   D
N N N    T    EEEE   M   M  PPPP   L      EEEE   D   D
N  NN    T    E      M   M  P      L      E      D   D
N   N    T    E      M   M  P      L      E      D   D
N   N    T    EEEEE  M   M  P      LLLLL  EEEEE  DDDD

TTTTTTTTTT    222222      888888      888888      222222     5555555555
TTTTTTTTTT    222222      888888      888888      222222     5555555555
TT      22        22  88      88  88      88  22        22  55
TT      22        22  88      88  88      88  22        22  55
TT                22  88      88  88      88            22  555555
TT                22  88      88  88      88            22  555555
TT              22      888888      888888            22          55
TT              22      888888      888888            22          55
TT          22      88      88  88      88        22              55
TT          22      88      88  88      88        22              55
TT        22        88      88  88      88      22        55      55
TT        22        88      88  88      88      22        55      55
TT      2222222222    888888      888888    2222222222    555555
TT      2222222222    888888      888888    2222222222    555555

LL              SSSSSSSS  TTTTTTTTTT      ;;;;        11
LL              SSSSSSSS  TTTTTTTTTT      ;;;;        11
LL          SS              TT          ;;;;      1111
LL          SS              TT          ;;;;      1111
LL          SS              TT              11
LL          SS              TT              11
LL            SSSSSS        TT          ;;;;        11
LL            SSSSSS        TT          ;;;;        11
LL                  SS      TT          ;;;;        11
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....  LL                SS  TT            ;;        11
....  LL                SS  TT            ;;        11
....  LLLLLLLLLL  SSSSSSSS  TT          ;;      111111
....  LLLLLLLLLL  SSSSSSSS  TT          ;;      111111
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File _HSC000$DUA4:[NWMPD.PRINT]T28825.LST;1 (2593,305,0), last revised on 5-AUG-1992 08:00, is a 34 block sequential file owned by UIC [ACCTNG,NTEMPLED]. The records are variable length with implied (CR) carriage control. The longest record is 131 bytes.

Job T28825 (865) queued to LTA32 on 5-AUG-1992 08:00 by user NTEMPLED, UIC [ACCTNG,NTEMPLED], under account ACCTNG at priority 100, started on printer LTA32: on 5-AUG-1992 08:00 from queue LTA32.

NWMAR130617

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

* = Finished Task		WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
TASK 0001	*DRYDOCKING		0.00	4.00	0.0%	0%	0.00	4.00	0.00	0.00	0.00
	Craft 3		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
	Craft 5		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
TASK 0002	*SERVICES		64.00	113.50	177.0%	0%	0.00	104.00	9.50	0.00	0.00
	Craft 1		0.00	18.00	0.0%			18.00	0.00	0.00	0.00
	Craft 4		8.00	27.50	343.0%			20.00	7.50	0.00	0.00
	Craft 6		0.00	8.00	0.0%			8.00	0.00	0.00	0.00
	Craft 9		56.00	53.00	94.0%			51.00	2.00	0.00	0.00
	Craft 11		0.00	7.00	0.0%			7.00	0.00	0.00	0.00
TASK 0003	*CHEMIST		12.00	27.00	225.0%	0%	0.00	21.00	6.00	0.00	0.00
	Craft 10		12.00	27.00	225.0%			21.00	6.00	0.00	0.00
TASK 0004	*CLEANING & PAINTING		444.00	1117.00	251.0%	0%	0.00	762.50	342.50	12.00	0.00
	Craft 1		0.00	4.50	0.0%			4.00	0.50	0.00	0.00
	Craft 2		416.00	1044.50	251.0%			717.50	315.00	12.00	0.00
	Craft 4		28.00	62.00	221.0%			35.00	27.00	0.00	0.00
	Craft 6		0.00	6.00	0.0%			6.00	0.00	0.00	0.00
TASK 0004A	*HULL COATING - BOW AREA		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 0005	*SKEG, PORT & STBD		8.00	7.00	87.0%	0%	0.00	7.00	0.00	0.00	0.00
	Craft 5		8.00	7.00	87.0%			7.00	0.00	0.00	0.00
TASK 0005A	*STBD SKEG REPAIR		0.00	4.50	0.0%	0%	0.00	4.00	0.50	0.00	0.00
	Craft 5		0.00	4.50	0.0%			4.00	0.50	0.00	0.00
TASK 0006	*ANODES		48.00	43.50	90.0%	0%	0.00	17.00	26.50	0.00	0.00
	Craft 5		48.00	35.50	73.0%			9.00	26.50	0.00	0.00
	Craft 17		0.00	8.00	0.0%			8.00	0.00	0.00	0.00
TASK 0007	*MANHOLES		57.00	62.00	107.9%	0%	0.00	62.00	0.00	0.00	0.00
	Craft 5		57.00	56.00	98.0%			56.00	0.00	0.00	0.00
	Craft 17		0.00	6.00	0.0%			6.00	0.00	0.00	0.00
TASK 0007A	*MANHOLE COVER SOUNDING T		0.00	34.50	0.0%	0%	0.00	25.50	9.00	0.00	0.00
	Craft 5		0.00	34.50	0.0%			25.50	9.00	0.00	0.00
TASK 0008	*TOW BRIDLE INSPECTION		16.00	35.50	221.0%	0%	0.00	35.00	0.50	0.00	0.00
	Craft 4		16.00	35.50	221.0%			35.00	0.50	0.00	0.00
TASK 0008A	*TOWING BRIDLE RETRIEVEIN		0.00	6.00	0.0%	0%	0.00	0.00	6.00	0.00	0.00
	Craft 4		0.00	6.00	0.0%			0.00	6.00	0.00	0.00
TASK 0009	*SEA CHESTS		32.00	6.00	18.0%	0%	0.00	6.00	0.00	0.00	0.00

* = Finished Task

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

		WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
	Craft 2		16.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 3		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
	Craft 5		16.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 17		0.00	4.00	0.0%			4.00	0.00	0.00	0.00
TASK 0010	*SEA VALVES		32.00	8.00	25.0%	0%	0.00	8.00	0.00	0.00	0.00
	Craft 3		32.00	2.00	6.0%			2.00	0.00	0.00	0.00
	Craft 17		0.00	6.00	0.0%			6.00	0.00	0.00	0.00
TASK 0011	*ANCHOR, CHAIN & LOCKER		72.00	115.50	160.0%	0%	0.00	91.00	24.50	0.00	0.00
	Craft 2		60.00	17.00	28.0%			8.00	9.00	0.00	0.00
	Craft 4		12.00	13.50	112.0%			13.00	0.50	0.00	0.00
	Craft 17		0.00	85.00	0.0%			70.00	15.00	0.00	0.00
TASK 0011A	*DETACHABLE LINK REPLACE		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 0013	*CARGO DECK HOUSE CLEANIN		945.00	2577.50	272.0%	0%	0.00	1328.00	1236.00	13.50	0.00
	Craft 1		16.00	4.00	25.0%			4.00	0.00	0.00	0.00
	Craft 2		799.00	1542.50	193.0%			652.00	877.50	13.00	0.00
	Craft 4		0.00	162.50	0.0%			122.00	40.50	0.00	0.00
	Craft 5		0.00	2.50	0.0%			0.00	2.50	0.00	0.00
	Craft 6		0.00	3.00	0.0%			0.00	3.00	0.00	0.00
	Craft 9		0.00	4.00	0.0%			0.00	4.00	0.00	0.00
	Craft 12		32.00	102.00	318.0%			90.00	12.00	0.00	0.00
	Craft 17		98.00	757.00	772.0%			460.00	296.50	0.50	0.00
TASK 0013A	*MAIN DECK COATING & NON-		299.00	391.00	130.0%	0%	0.00	294.00	96.50	0.50	0.00
	Craft 2		251.00	345.00	137.0%			259.00	85.50	0.50	0.00
	Craft 4		0.00	34.00	0.0%			25.00	9.00	0.00	0.00
	Craft 17		48.00	12.00	25.0%			10.00	2.00	0.00	0.00
TASK 0014	*STEEL REPAIRS		383.00	660.50	172.0%	0%	0.00	516.50	143.50	0.50	40.00
	Craft 2		0.00	4.00	0.0%			4.00	0.00	0.00	0.00
	Craft 4		46.00	37.00	80.0%			31.00	6.00	0.00	0.00
	Craft 5		257.00	439.00	170.0%			335.00	104.00	0.00	40.00
	Craft 7		32.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 12		0.00	50.00	0.0%			50.00	0.00	0.00	0.00
	Craft 15		48.00	15.00	31.0%			10.50	4.50	0.00	0.00
	Craft 17		0.00	115.50	0.0%			86.00	29.00	0.50	0.00
TASK 0014A	*ADDT'L STEEL REPAIR		0.00	186.50	0.0%	0%	0.00	99.00	87.50	0.00	0.00
	Craft 5		0.00	186.50	0.0%			99.00	87.50	0.00	0.00
TASK 0015	*JLG FOR OWNER		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 0016	*EMERGENCY TOW WIRE RENEW		0.00	97.50	0.0%	0%	0.00	82.00	15.50	0.00	0.00

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

* = Finished Task		WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
	Craft 3		0.00	2.00	0.0%			2.00	0.00	0.00	0.00
	Craft 4		0.00	29.00	0.0%			29.00	0.00	0.00	0.00
	Craft 5		0.00	43.50	0.0%			30.00	13.50	0.00	0.00
	Craft 12		0.00	23.00	0.0%			21.00	2.00	0.00	0.00
TASK 0017	*EMERGENCY GENERATOR F.O.		68.00	87.00	126.9%	0%	0.00	77.50	9.50	0.00	0.00
	Craft 2		8.00	4.00	50.0%			0.00	4.00	0.00	0.00
	Craft 3		0.00	4.50	0.0%			4.00	0.50	0.00	0.00
	Craft 4		0.00	3.00	0.0%			3.00	0.00	0.00	0.00
	Craft 6		60.00	67.50	112.0%			62.50	5.00	0.00	0.00
	Craft 17		0.00	8.00	0.0%			8.00	0.00	0.00	0.00
TASK 0018	*BLASTAWAY SUPPORT		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 2222	*PRE-PLANNING		14.00	8.00	57.0%	0%	0.00	8.00	0.00	0.00	0.00
	Craft 2		4.00	8.00	200.0%			8.00	0.00	0.00	0.00
	Craft 4		2.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 5		4.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 9		2.00	0.00	0.0%			0.00	0.00	0.00	0.00
	Craft 17		2.00	0.00	0.0%			0.00	0.00	0.00	0.00
TASK 9600	*SHIPCHECK, TRAVEL, OTHER		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00
TASK 9700	*PORT USE/REHAB		0.00	0.00	0.0%	0%	0.00	0.00	0.00	0.00	0.00

* = Finished Task

Job N4443 BARGE ALASKA TASKS: ALL CRAFT DETAIL: TASK CRAFTS: ALL MODS/SUBS DETAIL: N FINISHED TASKS: Y

	WORKED/ HOME	BUDGETED HOURS	ACTUAL HOURS	%BUDG EXP	% CMPLT	EARNED HOURS	REG HOURS	O.T. HOURS	D.T. HOURS	DP17
SUMMARY FOR JOB N4443		2494.00	5592.00	224.0%	0%	0.00	3552.00	2013.50	26.50	40.00
Craft 1		16.00	26.50	165.0%			26.00	0.50	0.00	0.00
Craft 2		1554.00	2965.00	190.0%			1648.50	1291.00	25.50	0.00
Craft 3		32.00	12.50	39.0%			12.00	0.50	0.00	0.00
Craft 4		112.00	410.00	366.0%			313.00	97.00	0.00	0.00
Craft 5		390.00	811.00	207.0%			567.50	243.50	0.00	40.00
Craft 6		60.00	84.50	140.0%			76.50	8.00	0.00	0.00
Craft 7		32.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 8		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 9		58.00	57.00	98.0%			51.00	6.00	0.00	0.00
Craft 10		12.00	27.00	225.0%			21.00	6.00	0.00	0.00
Craft 11		0.00	7.00	0.0%			7.00	0.00	0.00	0.00
Craft 12		32.00	175.00	546.0%			161.00	14.00	0.00	0.00
Craft 13		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 14		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 15		48.00	15.00	31.0%			10.50	4.50	0.00	0.00
Craft 16		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 17		148.00	1001.50	676.0%			658.00	342.50	1.00	0.00
Craft 18		0.00	0.00	0.0%			0.00	0.00	0.00	0.00
Craft 19		0.00	0.00	0.0%			0.00	0.00	0.00	0.00

JOB REPORTING COMPLETE

SOUTHWEST MARINE, INC.

39
+1500

BARGE ALASKA
14-May-92
09:39 AM

ITEM NUMBER	ITEM TITLE	TOTAL AMOUNT	NOTES
1.	DRYDOCK	14,599	1 HAUL & 3 LAY DAYS – SEE BID NOTE
	LIFT DAY (1)	8,620	INCLUDES BLOCK BUILD
	LAY DAYS (EACH)	1,993	
2.	SERVICES	5,524	INCLUDES $600.00 FOR SHOREPOWER USAGE
3.	CHEMIST	1,097	
4.	CLEANING AND PAINTING	8,505	SEE BID NOTE
	OPTION A	6,112	
	OPTION B	34,125	
	OPTION C 1967 hrs #38291	120,748	43,000 #
	OPTION D	3,324	
	OPTION E	12,648	480 #
	"C" SPOT BLAST & COAT	1.83	PER SQ.FT.
	"E" SPOT BLAST & COAT	2.83	PER SQ.FT.
5.	SKEGS	497	
6.	ANODES PRICE EA.	59	EACH
7.	MANHOLES PRICE EA.	118	EACH
8.	TOW BRIDLE INSPECTION	1,121	
9.	SEA CHESTS	370	
10.	SEA VALVES		
	OPTION A	1,033	
	OPTION B	631	
11.	ANCHOR, CHAIN AND LOCKER	8,893	
12.	PRESSURE VACUUM VALVES – NO BID VESSEL NOT EQUIPT		NO BID–VESSEL NOT EQUIPT
13.	ADDITIONAL CLEANING AND PAINTING 180 Shes #41788	118,451	SEE BID NOTE 64,000 #
14.	STEEL REPAIRS	16,423	
	STEEL REPAIRS–UNIT PRICE PER LB.	12	SEE BID NOTE

NOTES:

ITEM 1 DRYDOCKING RATES ARE BASED ON A MINIMUM HAUL DAY OF $5,000.00 AND $5.00 PER FOOT PER LAY DAY VS. THE HIGHER G.R.T. RATE.

ITEM 4 & 1 OUR EXPERIENCE ON CROWLEY DOCKINGS HAS BEEN AN AVERAGE OF 4 TO 5 DAYS IN DOCK.

ITEM 13 ADDITIONAL CLEANING & PAINTING
WE WILL NEED A TOTAL OF (6) DAYS – (1) HAUL & (5) LAY DAYS – TO ACCOMPLISH THIS ITEM IN DRYDOCK. ADD ACCORDINGLY DEPENDING ON WHAT PAINTING OPTION IS ACCOMPLISHED.

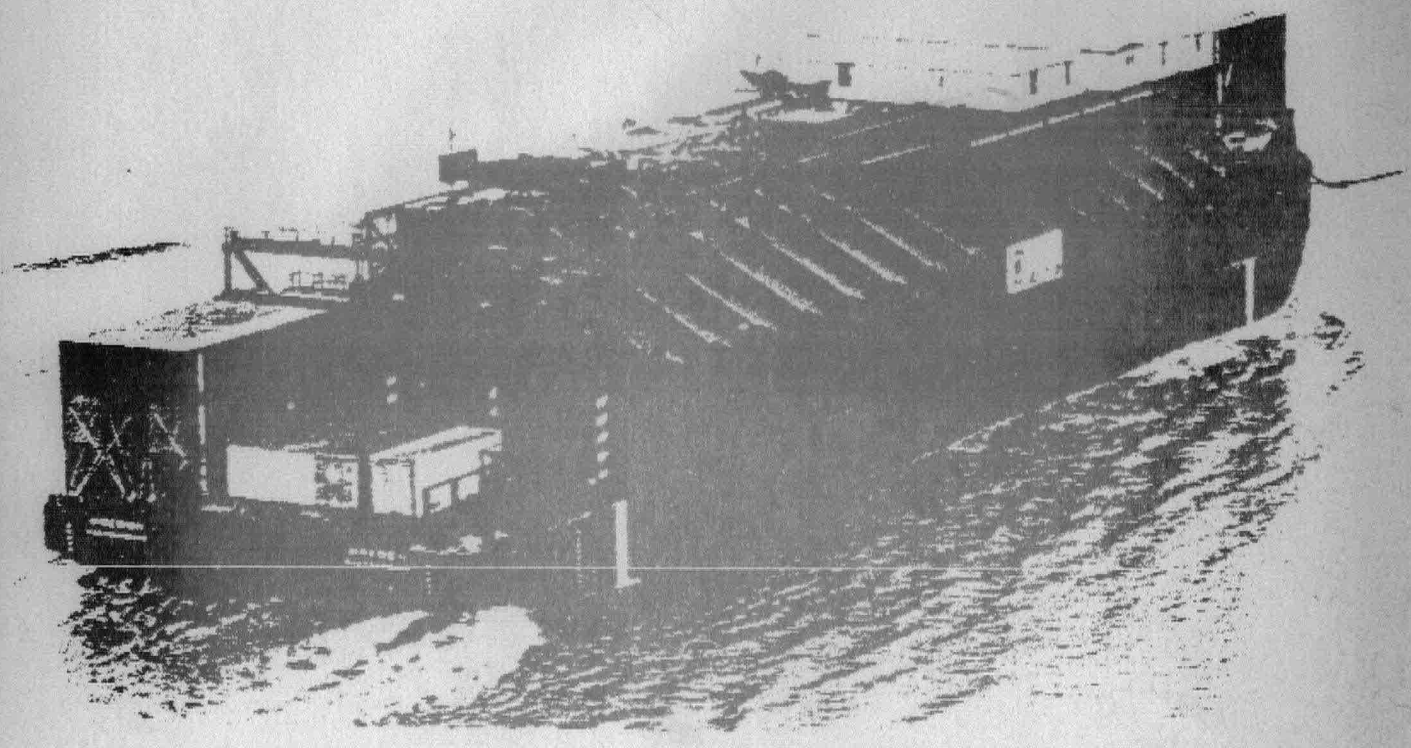
ITEM 14 STEEL REPAIR UNIT PRICES
UNIT PRICES WILL BE QUOTED UPON RECEIPT OF SPECIFIC WEIGHTS AND QUANTITIES REQUIRED.

CONFIDENTIAL

503 240 6272

DRY BULK BARGES

ALASKA 1976
OREGON 1976



DIMENSIONS: 398' 6" · 80' · 25'
DEADWEIGHT CAPACITY: 13,855 S T
DRAFT — LIGHT: 4' 10" Mean
LOADED: 20'
SERVICE: Deck Cargo House Bulk Urea

A DIVISION OF SOUTHWEST MARINE, INC.
P.O. Box 3109 • Portland • Oregon • 97208 • 5555 N. Channel Ave. • Bldg 2 • Portland • Oregon • 97217
(503) 285-7557 • TWX: 910-464-6107 NORMARINE PTL • FAX: (503) 240-6600

NORTH WEST MARINE

May 6, 1992

Crowley Maritime Corporation
2501, S.E. Columbia Way, Suite 200,
Vancouver, WA 98661

Attention: Mr. Paul Vidal, Port Engineer

Subject: BARGE ALASKA

Dear Mr. Vidal,

We have reviewed the specifications forwarded under cover of your letter dated April 15, 1992, and we enclose the itemized prices as requested.
The number of working days are noted depending on which painting option is accomplished. For the purpose of establishing a total price we have used certain options as indicated on the bid summary.

Our labor rate for additional work is $ 34.00 per straight time hour and an additional $ 12.00 per premium overtime hour.

Contract and payment terms are to mutually agreed to prior to the commencement of any work, and acceptance of the barge is subject to drydock availability.

We certainly appreciate this opportunity to submit our firm prices, and should you require any additional information please contact us at your earliest convenience.

Yours Sincerely,

William M. Johnston
Sr. Vice President
and General Manager

NORTHWEST MARINE
BID SUMMARY 04-May-92
VESSEL:CMC BARGE ALASKA

55000 #
6 3000 #

OWNER: CROWLEY MARITIME

$30/hr.

ITEM	TITLE	ITEM PRICE	TOTAL PRICE	
1	DRYDOCKING		11,317	WITH HP & OPTION A
	LIFT DAY (1)	5,443		
	LAY DAYS (EACH)	2,937		
	WITH HP WASH AND OPT.A = (2) LAY DAYS			
	WITH OPT. B AND D = (3) LAY DAYS			
	WITH OPT. C AND E = (4) LAY DAYS			
2	SERVICES	3,540	3,540	
3	CHEMIST	1,105	1,105	
4	CLEANING AND PAINTING			
	HP WASH	4,945	10,332	WITH HP WASH & OPTION A
	OPTION A	5,387		
	OPTION B	14,600		
	OPTION C 895hrs $10,790	40,401	1190 POP	
	OPTION D	8,811		
	OPTION E	22,648		
	"C" SPOT BLAST & COAT	1.55		PER SQ. FT.
	E" SPOT BLAST & COAT	1.25		PER SQ. FT.
5	SKEGS	250	250	
6	ANODES, EACH	63		EACH
7	MANHOLES, EACH	106		EACH
8	TOW BRIDLE INSPECTION	516	516	
9	SEA CHESTS (SAY 2)	1,016	1,016	
10	SEA VALVES (SAY 2- 10" VALVES)			
	OPTION A	1,063	1,063	
	OPTION B	1,688		
11	ANCHOR, CHAIN AND LOCKER	2,303	2,303	
12	PRESSURE VACUUM VALVES, 4", EACH	406		EACH
13	ADDITIONAL CLEAN & PAINT	38,269	38,269	SEE NOTE BELOW 55,000 #
14	STEEL REPAIRS	13,801	13,801	
	UNIT PRICE PER LB.	10.89		BASED ON SPECIFIED QUANTITIES
	TOTAL	N/A	83,512	EXCLUDES UNIT PRICES AND CERTAIN OPTIONS

Water wash ?

OTE

13 ADDITIONAL CLEAN & PAINT
WE WILL NEED A TOTAL OF (5) DAYS, (1) +(4) LAY,
TO ACCOMPLISH THIS ITEM IN DRYDOCK
ADD ACCORDINGLY DEPENDING ON WHAT PAINTING
OPTION IS ACCOMPLISHED.
NO DRYDOCK COSTS HAVE BEEN ADDED TO THIS ITEM

BACKGROUND

Northwest Marine Iron Works (NMIW) is an established, privately owned, shipyard located in the Portland Ship Repair Yard in Portland, Oregon.

In March of 1985, NMIW received a Navy Request for Proposals to perform the regularly scheduled overhaul and repair of the USS DULUTH (LPD-6), a landing platform dock for amphibious assault vessels. NMIW responded and was awarded a contract for the work on August 19, 1985. The overhaul of the USS DULUTH commenced on 29 September 1985 and completed on 24 June 1986 several days prior to the actual contractual completion date.

During the performance of the contract, actions and/or inactions of the government caused NMIW to incur substantial costs for which it has not yet been compensated. A Request for Equitable Adjustment (REA) (Clause H-16 - Documentation of Requests for Equitable Adjustments was developed and submitted to the Government contractual representative, Supervisor of Shipbuilding and Repair, U.S. Navy in Seattle, Washington (SupShip,Seattle) on March 10, 1987. The REA sets forth in detail the history of the overhaul and identifies those areas in which NMIW has not been compensated for work performed at the request of the Navy. The REA seeks compensation for the direct costs of change order work not finalized, and for impact costs incurred as a result of growth, interference from the Ship's Force, defective specifications in the electronics ship alteration work package, and impact caused by government delay in authorizing underwater hull repairs which extended the drydock period and caused impact to work on the DULUTH, and on the USCGC STORIS (WHMEC-28) project which was delayed in drydocking due to the DULUTH work.

Prior to the submission of the final REA NMIW developed and submitted 22 separate "negotiating" items to SupShip, Seattle on 29 April 1986 prior to the completion of the USS DULUTH overhaul. These items defined those areas by specification work item where the contractor had performed additional work and had experience impact caused by the government for which the company had not been compensated. These items were developed at the verbal request of the government and were formatted as SupShip, Seattle requested. These "negotiating" items were rejected by SupShip, Seattle and were returned by covering letter which required the contractor to submit all claimed damages in REA format as setforth in the contract, Clause H-16.

On 10 March 1987 after an additional eleven months of development NMIW submitted the completed REA to the government (SupShip, Seattle) in the amount of $6,429,903.80. Since submission of the REA, NMIW has experienced ongoing delays, unfilled promises, and inactions on part of the government (Supship, Seattle). Due to these factors it is not clear at this point as to when and how the resolution to the DULUTH REA will occur.

Four Maximum Modifications (MaxMods) were included as part of the 22 separate "negotiating" items discussed above. These MaxMods are change orders for additional work scope accomplished by NMIW during the DULUTH contract which have not been negotiated and settled yet with the Government due to continuing disagreement between NMIW and the SupShip, Seattle Contracting Officer as to whether the target-to-ceiling adjustment used for all change orders during the contract would be applied to these change orders.

Due to the fact the MaxMods are bonefide change orders which must be settled to complete the DULUTH contract they were not made part of the DULUTH REA.

The chronology of the events concerning the submission of the DULUTH REA is as follows:

10 March 1987 - NMIW submitted the four volume Request For Equitable Adjustment (REA) with a total value of $6,429,903.80 to the Supervisor of Shipbuilding and Repair, USN (SupShip), Seattle, Washington.

21 May 1987 NMIW sent a followup letter to SupShip, Seattle requesting the time frame in which a reply could be expected from the Government on a decision for the REA. NMIW indicated in the letter that it intended to appeal to the Armed Services Board of Appeals by the date of 6 July 1987 if no response was received from SupShip, Seattle.

12 June 1987 - NMIW received a reply from the Contracting Officer, SupShip, Seattle indicating that the Contracting Officer was now interpreting the DULUTH REA to be a "claim" under the provisions of Federal Acquisitions Regulations (FAR) Article 33.206, and that the issuance of a Contracting Officer's Decision would be in accordance with FAR Article 33.211 (c)(2). The provisions of the latter FAR article require the Contracting Officer to provide his decision within 60 days, or to notify the contractor (NMIW) within the 60 day period of when his decision would be forthcoming. The REA was properly certified as a "claim" as required by Clause I-2-26 of the DULUTH contract.

The delay of the Contracting Officer in responding to the REA within the required 60 day period cannot be blamed on NMIW's lack of certification of the DULUTH REA as a "claim" as was implied in the SupShip, Seattle letter of 12 June 1987.

30 July 1987 - NMIW appealed to the Armed Service Board of Contract Appeals under Section 6 of the Contracts Disputes Act (41 U.S.C. Section 605) for failure and refusal of the Contracting Officer to render, issue or notify NMIW of when a final Contracting Officer's Decision would be issued as required by Section 6(c) of the Act. Also, in the appeal NMIW deemed that the Contracting Officer's failure and refusal to issue a final decision, or to notify NMIW of when a decision would be issued as a complete denial of the 10 March 1987 claim as submitted.

31 July 1987 - The Contracting Officer, SupShip, Seattle, after receiving a copy of the appeal, notified NMIW that the anticipated issuance of a Contracting Officer's Final Decision for the DULUTH REA/claim would be forthcoming on 30 October 1987, and that the primary factor determining this date was the completion of an audit of the DULUTH REA by the local (Portland) Defense Contracts Audit Agency (DCAA) auditors.

19 August 1987 - NMIW submitted four proposals for settlement for negotiation of the four open Maximum Modification (MaxMods) to the DULUTH contract. The MaxMods are change orders to the basic DULUTH contract and are termed "maximumum modifications" because at the time the change orders were provided to the contractor (NMIW) the exact scope of the work involved was not fully determinable. Therefore, an accurate estimate of costs of performing the scope of work could not be determined. Thus, an upper limit price was pre-assigned using the vehicle of the Maximum Modifications through agreement between the contractor and the Government. This price then became the ceiling value of the exposure of the Govenment for payment for the scope of work when the change order work was completed. The estimated negotiated value of the four MaxMods is $920,105. These MaxMods are:

(a) Navy Item No. 534-11-500 Fresh Water Drain Collecting System Bilge Piping Replace - Price Proposal No. 0004
(b) Navy Item No. 992-11-002 Additional Repairs to Berthing Barge IX-502 - Price Proposal No. A00002
(c) Navy Item No. 992-11-002 Additional Repairs to Berthing Barge Ix-502 - Price Proposal No. A00003
(d) Navy Item 529-31-501 Replace Air Ballast and Deballast Piping - Price Proposal No. 16.

2 September 1987 - NMIW files an REA status letter with SupShip, Seattle which presented two issues . The first issue is that the REA was submitted on 10 March 1987. On 29 July 1987 NMIW submitted an appeal to the Armed Services Board of Contract Appeals, and on 30 July 1987 SupShip, Seattle indicated by letter that a Contracting Officer's Decision would be forthcoming by 31 October 1987. The goal of this action was to prod SupShip, Seattle to issue the decision by their target date. The second issue is a result of the submission on 15 August 1987 of the four open MaxMods to the DULUTH contract for settlement as described above. The issue is that SupShip local Contracting Officer indicated during negotiating discussions for the four Max Mods that the contractually stipulated ceiling adjustment would not apply to these items upon completion of negotiation. This is of major concern in that the DULUTH "fixed price incentive" contract provides for applying a factor of 1.3 to the negotiated (target) price of all change orders for a "ceiling" price to which the Government would pay NMIW in the event that costs overran the negotiated target price. Throughout the DULUTH contract the target-to-ceiling factor of 1.3 was applied to all change orders

as is provided for in the DULUTH contract. In terms of the unresolved MaxMods the value of the target-to-ceiling factor to NMIW is the increase in payment by the government for the work done equal to 0.3 times the estimated settlement value (target cost) of the Max Mods of $920,105, or a value of $276,031.

10 September 1987 - NMIW filed its complaint in the case of the DULUTH REA with the Armed Services Board of Contracts Appeals, and provided the Board with "notice of appearance" that John Jozwick would represent the company as attorney for the case.

11 September 1987 - SupShip, Seattle indicated that they were "prepared to negotiate" the open MaxMods. Additionally, they stated that "with respect to establishing a ceiling price for the subject modifications, negotiations will be conducted in accordance with the provisions of paragraph (k) of reference (a)." Paragraph (k) of reference (a) is I-2-27 clause paragraph (k) of the DULUTH contract. It defines the target-to-ceiling factor adjustment for an REA and does not apply to the resolution of a MaxMod change order.

28 September 1987 - A status letter from John Jozwick, Taylor & Hintze, NMIW's attorney for contracts, indicated that he expected that the DCAA audit of the DULUTH REA would be completed in time to support a Contracting Officer's Decision on or near the projected date of 30 October 1987. Additionally, he indicated that "Northwest Marine is attempting to seek a negotiated settlement with the Contracting Officer on this matter. However, should the Contracting Officer fail to respond, or to deny the claim, a hearing before the Board of Contract Appeals will probably be scheduled for the summer of 1988. An evaluation of the outcome of this matter is difficult to determine at this time when the Contracting Officer has failed to respond to the Northwest marine claim."

About 29 October 1987 - Based on the Contracting Officer's letter of 31 July 1987, which indicated that a decision on the DULUTH REA would be forthcoming on about 30 October 1987, and on the verbal assurances from the Contracting Officer that action was in progress to resolve the claim, NMIW decided to suspend the appeal procedings.

3 November 1987 - Based again on verbal input from SupShip, Seattle Contracting Officer that settlement discussion would begin on about 15 December 1987, NMIW attorneys again requested suspension of the appeals proceding indefinitely.

17 November 1987 - NMIW again requested the Government' status in providing a response to the DULUTH REA and again stated that the MaxMods had not been settled "...due to disagreement as to the application of the ceiling factor to the negotiated target costs of the Modifications when they were settled."

About 20 November 1987 - Local (Portland) DCAA auditors begin auditing the DULUTH REA.

1 December 1987 - NMIW receives a reply to the 17 November 1987 status followup letter from SupShip, Seattle indicating that a Contracting Officer's Decision was forthcoming in the future. Additionally, the SupShip, Seattle Contracting Officer stated that, "as to the disagreement concerning application of ceiling factor to negotiated target costs, I find nothing formal from the Contractor. To clarify that situtation, it is suggested that you provide your position, or argument, formally so that it might be reviewed."

1 December 1987 - NMIW provided answers to the local DCAA auditor questions about the DULUTH REA by letter.

10 December 1987 - DCAA audit is completed and forwarded to SupShip, Seattle.

14 December 1987 - In response to the 1 December 1987 SupShip, Seattle Contracting Officer's request for NMIW's formal position to the issue of target-to-ceiling adjustment for application to the unresolved MaxMods, NMIW provided by letter a detailed discussion of the application which has been used throughout the contract with all change orders as is clearly defined in the DULUTH contract.

14 December 1987 - Local SupShip, Seattle Contracting Officer, Mr. Gene Hulsey, starts preparing/writing the government position on the DULUTH REA/claim. Gene Hulsey was the contracting representative for SupShip, Seattle for the DULUTH contract. He (Gene) stated on 27 January 1988 that it would take about two weeks for him to complete his write up. Then the position statement would be sent to the next higher command, Naval Sea Systems Command (NAVSEA) in Washington, D.C. for review and approval which would take about one and a half to two months. Then SupShip, Seattle will write the official Government's position in the form of a Contracting Officer's Decision (extracts from the notes of Jerry McMurry).

22 January 1988 - NMIW submited to SupShip, Seattle the forth contract claim status letter which defined the status of the company's actions on the DULUTH REA and the status of the government progress to date. As was discussed in the 2 September 1987 status letter (above), the open, unsettled Max Mods were highlighted indicating that until the target-to-ceiling adjustment application to the MaxMods was resolved that NMIW could not settle the open MaxMods. Again we asked SupShip, Seattle for their plan for resolving the conflict.

09 February 1988 - The company receives a reply from SupShip, Seattle to the 22 January 1988 claim status letter which indicated that the government's position on the DULUTH REA was being prepared in the form of a "prenegotiation business clearance" to be sent to NAVSEA for approval. The issue of target-to-ceiling adjustment for the unresolved MaxMods was again addressed by the government but in an incomplete and confusing fashion, "Application of ceiling factor to negotiated costs is included in the audit for consideration in the REA." The application of the ceiling factor to the MaxMods was not addressed!

509-946-4330

DEPARTMENT OF THE NAVY
SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN
SEATTLE, WASHINGTON 98115-5003

IN REPLY REFER TO:
4710
Ser 410-677
09 February 1988

RECEIVED
FEB 16 1988
TAYLOR & HINTZE

Mr. Bill Zavin, President
Northwest Marine Iron Works
P.O. Box 3109
Portland, Oregon 97208

Dear Bill,

This is in response to your letter of 22 January 1988 which deals with the status of DULUTH, CUSHING and STORIS.

a. USS CUSHING: DCAA audit is now completed. Technical analysis nearing completion. The Technical Analyst has requested copies of purchase orders to substantiate subcontract costs from your Mr. Costorini. Requested information has not been forthcoming and can be expected to affect the Government position.

b. USS DULUTH: DCAA audit is now completed. Prenegotiation business clearance is being prepared for submission to NAVSEA for approval. Application of ceiling factor to negotiated target costs is included in the audit for consideration in the R.E.A.

c. USCGS STORIS: Review of CFRs received not yet completed. Contractor will be advised when completed.

Very truly yours

R.R. Morrison

R.R. MORRISON
Contract Officer

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

PHONE: (503) 285-7557
TWX: 910-464-6107 NORMARINE PTL

January 22, 1988

Supervisor of Shipbuilding
Conversion and Repair, USN
Seattle, WA 98115

Attention: Mr. Bob Morrison

Subject: Status on Contract Resolution
USS CUSHING (DD-985), USS DULUTH (LPD-6),
and USCGC STORIS (WMEC-38)

Dear Mr. Morrison:

The following is the status of resolution of the subject contracts. It is requested that SupShip, Seattle provide confirmation as to their plans for these contracts as discussed below.

a. USS CUSHING. The LAMPS proposal audit by DCAA Portland has been completed and has been reviewed by DCAA Seattle and submitted to SupShip Seattle. SupShip Seattle letter, Serial 410-4193 of 15 October 1987 indicated that negotiations for the LAMPS proposal would commence on or about 7 December '87. There have been no negotiations to date. Request SupShip Seattle's present plans for negotiations.

b. USS DULUTH. The audit of the DULUTH REA by DCAA Portland is completed. The audit is under review by DCAA Seattle and is scheduled to be submitted to SupShip Seattle on or about 15 January 1988. SupShip Seattle indicated by letter dated 31 July 1987 that a Contracting Officer's Decision would be forthcoming by 31 October 1987. Have not yet received the Contracting Officer's decision; however, we understand that the local Contracting Officer is now in the process of writing the Government's position. Request SupShip Seattle's estimated date for settlement negotiations.

Additionally, there are several open unsettled Modifications to the DULUTH contract. These have not been settled due to disagreement as to the application of the ceiling factor to the negotiated target costs of the Modifications when they are settled. In response to your request for NMIW's position on the issue of target - ceiling adjustment of outstanding modifications, we provided you our position by letter on December 14, 1987. Request SupShip Seattle's plan for settlement of these Modifications.

c. USCGS STORIS. The STORIS REA will be completed and submitted to SupShip, Seattle in the March/April 1988 time frame. Additionally, we have submitted several open price proposals and several condition reports defining additional work performed on the STORIS to the local Contracting Officer for review and action. We have had no response yet from SupShip Seattle as to the status of the open price proposals and condition reports. Request SupShip Seattle status on these open items.

Sincerely,

William H. Zavin II
President

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DEC 3 1987

N.W. MI. WKS

DEPARTMENT OF THE NAVY

SUPERVISOR OF SHIPBUILDING, CONVERSION, AND REPAIR, USN

SEATTLE, WASHINGTON 98115-5003

IN REPLY REFER TO:

4280
Ser 410-4873
01 December 1987

Mr. Bill Zavin, President
Northwest Marine Iron Works
P.O. Box 3109
Portland, OR 97208

Dear Bill;

This is in response to your letter of 17 November 1987, which addressed the resolution of contracts for USCGS STORIS, USS CUSHING and USS DULUTH.

a. USCGS STORIS. The original REA dated 08 December 1986, was rejected by letter of 18 December 1986. Subsequently, the Contracting Officer has suggested that several items of change, not associated with the REA, should be priced and submitted for review and negotiation. Your recent letter advises that such has been done. Additionally, you submitted several condition reports, apparently intending to generate added changes. Due to the nature and vintage of the CFRs, it may take a bit longer than usual to get a response, however, a response will be made. In the meantime Mr. Hulsey is empowered to do whatever is required to start resolution of the outstanding change items.

b. USS CUSHING. DCAA audit is slated to be completed about 17 December 1987. Negotiations will probably use the same personnel resources as are planned for USS DULUTH,. Since USS DULUTH was received prior to USS CUSHING, they will be handled in the order received.

c. USS DULUTH. REA is in the hands of DCAA for audit, which is slated for completion approximately 15 December 1987. It is understood that the Contractor intends to modify the REA to correct errors in some of the calculations. Once the audit is completed, a Pre-Negotiation Business Clearance must be prepared and be passed to NAVSEA for their concurrence prior to commencing negotiations. It is estimated that will probably consume about 30 days. It should be noted that this is a necessary step prior to the negotiation of any REA/Claim.

As to the disagreement concerning application of ceiling factor to negotiated target costs, I find nothing formal from the Contractor. To clarify that situation, it is suggested that you provide your position, or argument, formally so that it might reviewed.

Very truly yours,

Robert R. Morrison

ROBERT R. MORRISON
Contracting Officer

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS: P.O. BOX 3109
PORTLAND, OR 97208

5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217

PHONE: (503) 285-7557

TWX: 910-464-6107 NORMARINE PTL

November 17, 1987

Supervisor of Shipbuilding
Conversion and Repair, USN
Seattle, WA 98115

Attention: Mr. Bob Morrison

Subject: Status on Contract Resolution: USS CUSHING (DD-985), USS DULUTH (LPD-6), and USCGC STORIS (WMEC-38)

Dear Mr. Morrison:

The following is the status of resolution of the subject contracts. This is provided for information and action. It is requested that SupShip, Seattle provide confirmation as to their plans for resolution of these contracts as discussed below.

a. USS CUSHING. The LAMPS proposal is being audited by DCAA Portland personnel. It is anticipated that the audit will be completed and the report submitted to SupShip, Seattle by the end of November, 1987. SupShip, Seattle letter serial 410-4193 of 15 October 1987 indicated that negotiations for the LAMPS proposal would commence on or about 7 December 1987. Request SupShip, Seattle's estimation of the date for start of negotiations.

b. USS DULUTH. The DULUTH REA is now in technical review at SupShip, Seattle. The REA is being audited by DCAA, Portland. It is anticipated that the audit report will be submitted to SupShip, Seattle in early December. SupShip, Seattle indicated by letter dated 31 July 1987 that a Contracting Officer's Decision would be forthcoming by 31 October 1987. Informally we understand that SupShip, Seattle is willing to commence settlement discussions in December 1987. Based on this, our attorneys, Taylor and Hintze, have requested that the Armed Services Board of Contract Appeals suspend proceedings on our appeal of the DULUTH contract for the time being. Request SupShip, Seattle's date for start of settlement negotiations.

Additionally, there are several open unsettled Modifications to the DULUTH contract. These have not been settled due to disagreement as to the application of the ceiling factor to the negotiated target costs of the Modifications when they were settled. DCAA has not audited either the DULUTH or the CUSHING contracts for settlement of final negotiated costs. Due to work load at DCAA it appears that these contracts will not be audited until sometime in 1988. Request SupShip, Seattle's intended course of action to settle these Modifications.

c. USCGS STORIS. The STORIS REA will be completed and submitted to SupShip, Seattle at the end of January 1987. Additionally, we have submitted several open price proposals and several condition reports defining additional work performed on the STORIS to the local Contracting Officer for review and action. We are anticipating response in the near future from SupShip, Seattle on the status of the condition reports and the open price proposals.

Your continuing assistance in resolving these issues and in settlement of the contracts is appreciated.

Sincerely,

Bill

William H. Zavin, II
President

WHZdc

cc: Jerry McMurry
John Jozwick, Taylor and Hintze

TAYLOR & HINTZE

ATTORNEYS AT LAW

SEATTLE OFFICE
900 AGC BUILDING, 1200 WESTLAKE AVENUE NORTH, SEATTLE, WASHINGTON 98109
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November 16, 1987

RECEIVED

NOV 30 1987

TAYLOR & HINTZE

Armed Services Board of Contract Appeals
7th Floor, Skyline Six
5109 Leesburg Pike
Falls Church, VA 22041

RE: ASBCA No. 35377
Appeal of Northwest Marine Iron Works
Under Contract No. N00024-86-C-8506

Gentlemen:

Appellant and Respondent have agreed to commence settlement discussions on December 15, 1987, with the intent of resolving all issues raised in the subject appeal. Accordingly, and by agreement of counsel, appellant hereby requests that this Board suspend proceedings in the subject appeal for an indefinite period of time, and without prejudice to the appellant, pursuant to Rule 30 of the Rules of the Armed Services Board of Contract Appeals.

By indicating concurrence below, respondent expressly agrees that this appeal shall be reinstated, pursuant to the Rules of the Armed Services Board of Contract Appeals, should a full settlement of all issues not be reached in a timely fashion.

Very truly yours,

TAYLOR & HINTZE

Randall D. Zuke
Attorneys for Appellant
Northwest Marine Iron Works

RDZ:ss

SENT TO CLIENT
11/30/87

RICHLAND OFFICE
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RE: ASBCA No. 35377
Appeal of Northwest Marine Iron Works
Under Contract No. N00024-86-C-8506

Respondent's Concurrence:

R. Anthony McCann

R. Anthony McCann
Senior Trial Attorney
Office of General Counsel
Department of the Navy

cc: Mr. Jim BeBack
Supervisor of Shipbuilding--Seattle

Mr. Jerry McMurry
Northwest Marine Iron Works