Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R-046	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-09 as changed by R-046

TITLE: ADDITIONAL SKIN VALVE INSPECTIONS

Ship's POC: MK1 CROCKETT/MK2 BARNETT | Ref CFR: N/A

Specifications Prepared by:	Date:	COTR Approval:	Date:
R. W. MOORE, LCDR, USCG	5/23/89	J. J. MCCLELLAND, CAPT, USCG	24-5-89

PART II. TECHNICAL APPROVAL, P.R. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK Add to Basic Item # D-09 | [ ] NEW WORK Add Item #
3. Impact of Denial: [X] Mission Essential or [ ] Health and Safety

MLC SPE SEATTLE Review:	Date:	(vr) Tech Approval:	Date:	Funds Approval:
C. L. SEWAN, LCDR	5/25/89	J. G. GAMBLE, LCDR, USCG		

FUND CITATION: 40-C-1-9-33- - -

ORIG EST $_____

REV EST $_____

PART III. SETTLEMENT AGREEMENT By signature below the parties agree that this settlement is considered fair and reasonable and that it constitutes full and final equitable adjustment for this change. The contractor releases the Government from any liability under this contract for further equitable adjustments attributable to facts & circumstances or impact of this change.

CONTRACTOR MUST CHECK ONE OF THE FOLLOWING:

[ ] The contract completion date is extended to _____

[ ] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ 6102.00 | CHANGE ORDER # A- 24

J. C. PORTER Contracting Officer	5-26-89 5:45 pm Proceed as of Date/Time	Contractor

NWMAR125846

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

C H A N G E O R D E R R E Q U E S T / A U T H O R I Z A T I O N

Ship	Contract No	Request No	Page 2 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R-046	2

TITLE: ADDITIONAL SKIN VALVE INSPECTIONS

CONDITIONS EXISTING: THREE ADDITIONAL SKIN VALVES (WITH WASTER PIECES) HAVE BEEN LOCATED. THESE VALVES ARE NOT COVERED IN ITEM D-09, THEY SHOULD BE ADDED TO THE VALVE LIST "FIGURE D-09-A".

SCOPE OF WORK: 1) CONTRACTOR TO PROVIDE ALL LABOR AND MATERIALS NECESSARY TO PULL AND INSPECT THE FOLLOWING THREE VALVES AND THREE WASTER PIECES. INSPECTION SHALL BE AS SPECIFIED IN ITEM D-09.

VALVE #	FRAME	DIST FROM C/L	SIZE	TYPE	WASTER PIECE
MSW 3	141	22 FT TO PORT	4"	GATE	YES
MSW 4	175	20 FT TO STBD	6"	GATE	YES
MSW 5	174	20 FT TO PORT	6"	GATE	YES

2) CONTRACTOR TO PROVIDE ALL LABOR & MATERIALS TO PULL THE FOLLOWING SEA VALVES TO ALLOW INSPECTION OF THEIR WASTER PIECES:

3-173-2 BILGE OVERBOARD 6" GATE.

5-117-1 EVAP OVERBOARD 3" GATE

5-117-2 EVAP OVERBOARD 3" GATE.

INSPECTION OF THESE THREE VLVS COVERED UNDER D-09 WITH REPAIR UNDER A-17

CONTRACTOR TO SURVEY WASTER PIECES AND REPORT VIA CFR AS REQUIRED IN D-09 PARAGRAPH 3.7.1. ~~[illegible]~~. THE REQUIREMENTS OF D-09 ~~PARAGRAPHS 3~~ INVOLVING PULLING, INSPECTION AND REPLACEMENT OF SEA VALVES SHALL APPLY.

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS P.O. BOX 3105
PORTLAND, OR 97208

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

PHONE (503) 285-7557

TWX 910-464-6107 NORMARINE PTL

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 5-26-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-046

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: U.S.C.G. POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-046

DATE: 5-26-89

NAVY ITEM NO.: D-09

NMIW ITEM NO.: 90

	LABOR		HOURS	RATE		DOLLARS
1.	STRAIGHT TIME	NON AGR	148	35.60		5269
2.	OVERTIME					
3.	RESERVATION	AGR	64	22.00		1408
4.	TOTAL HOURS		212			
5.	TOTAL LABOR					
6.	MATERIALS					120
7.	SUBCONTRACTORS					
8.	DELAY/DISRUPTION/IMPACT COST					
9.	SUBTOTAL (FEE BEARING COST)	Line 3+6				1528
10.	PORT OF PORTLAND USE FEE (LINE 9 x ___%)				+	87
11.	SUBTOTAL					1615
12.	P.O.P. TARIFF					~~0~~
13.	SUBTOTAL					1615
14.	FEE (LINE 13 x ___%)				+	162
15.	FCOM					38
16.	TOTAL PRICE					5269
17.	EXTENSION OF CONTRACT SCHEDULE					7084.00

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED ___

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

R-046

Portland Yard

SHEET 1 OF 1

ITEM: D-09

DATE

PARA	Item Description	Manhours	Material	Total Manhours	Total Material	
(1)	R/R :					
	1 - 4" Gate VALVE		20	24	10	
	2 - 6" " "		42	48	10	
	OPEN + INSPECT VALVE + WASTER					NOW AGR
	And write Report:					
	1 - 4" Gate VALVE		12	12	20	
	2 - 6" " "		36	36	30	
(2)	R/R :					
	2 - 3" Gate VALVES		32	40	20	AGR
	1 - 6" " "		27	24	10	
	OPEN + INSPECT COVERED ON A-17			~~0~~		
	Prep Paint		8	8	10	
	Production Planning		12	16	10	NON AGR
	R&G		4	4	~~0~~	
			188			

NWMAR125850

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: U.S.C.G. POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.:

DATE:

NAVY ITEM NO.:

NMIW ITEM NO.:

4015

	LABOR	HOURS	RATE		DOLLARS
1.	STRAIGHT TIME	110	35.60		3916
2.	OVERTIME				
3.	RESERVATION	78	22.00		1716
4.	TOTAL HOURS				
5.	TOTAL LABOR				
6.	MATERIALS				120
7.	SUBCONTRACTORS				
8.	DELAY/DISRUPTION/IMPACT COST				
9.	SUBTOTAL (FEE BEARING COST)				1836
10.	PORT OF PORTLAND USE FEE (LINE 9 x ___%)			+	105
11.	SUBTOTAL				1941
12.	P.O.P. TARIFF				0
13.	SUBTOTAL				1941
14.	FEE (LINE 13 x ___%)			+	194
15.	FCOM				111
16.	TOTAL PRICE				3916
17.	EXTENSION OF CONTRACT SCHEDULE				6162.00 DAYS

Sold

6102

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED _____

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R-046	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-09 as changed by R-046

TITLE: ADDITIONAL SKIN VALVE INSPECTIONS

Ship's POC: MK1 CROCKETT/MK2 BARNETT | Ref CFR: N/A

Specifications Prepared by:	Date:	COTR Approval:	Date:
R. D. MOORE, LCDR, USCG	8/23/89	J. J. MCCLELLAND, CAPT, USCG	24.5.89

PART II. TECHNICAL APPROVAL, P.R. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK | [ ] NEW WORK
   Add to Basic Item # D-09 | Add Item #
3. Impact of Denial: [X] Mission Essential or [ ] Health and Safety

MLC SBE SEATTLE Review:	Date:	(vr) Tech Approval:	Date:	Funds Approval:
C. L. SWAN, LCDR	5/25/89	J. G. GAMBLE, LCDR, USCG		/

FUND CITATION:
40-C-1-9-33- - -

ORIG EST $_____

REV EST $_____

PART III. SETTLEMENT AGREEMENT By signature below the parties agree that this settlement is considered fair and reasonable and that it constitutes full and final equitable adjustment for this change. The contractor releases the Government from any liability under this contract for further equitable adjustments attributable to facts & circumstances or impact of this change.

CONTRACTOR MUST CHECK ONE OF THE FOLLOWING:

[ ] The contract completion date is extended to _____

[ ] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ | CHANGE ORDER # A-

J. C. PORTER		
Contracting Officer	Proceed as of Date/Time	Contractor

NWMAR125852

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

C H A N G E O R D E R R E Q U E S T / A U T H O R I Z A T I O N

Ship	Contract No	Request No	Page 2 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R-Ø46	2

TITLE: ADDITIONAL SKIN VALVE INSPECTIONS

CONDITIONS EXISTING: THREE ADDITIONAL SKIN VALVES (WITH WASTER PIECES) HAVE BEEN LOCATED. THESE VALVES ARE NOT COVERED IN ITEM D-09, THEY SHOULD BE ADDED TO THE VALVE LIST "FIGURE D-09-A".

SCOPE OF WORK: 1) CONTRACTOR TO PROVIDE ALL LABOR AND MATERIALS NECESSARY TO PULL AND INSPECT THE FOLLOWING THREE VALVES AND THREE WASTER PIECES. INSPECTION SHALL BE AS SPECIFIED IN ITEM D-09.

VALVE #	FRAME	DIST FROM C/L	SIZE	TYPE	WASTER PIECE
MSW 3	141	22 FT TO PORT	4"	GATE	YES
MSW 4	175	20 FT TO STBD	6"	GATE	YES
MSW 5	174	20 FT TO PORT	6"	GATE	YES

2) CONTRACTOR TO PROVIDE ALL LABOR & MATERIALS TO PULL THE FOLLOWING SEA VALVES TO ALLOW INSPECTION OF THEIR WASTER PIECES:

3-173-2 BILGE OVERBOARD 6" GATE.

5-117-1 EVAP OVERBOARD 3" GATE

5-117-2 EVAP OVERBOARD 3" GATE.

INSPECTION OF THESE THREE VLVS COVERED UNDER D-09 WITH REPAIR UNDER A-17

CONTRACTOR TO SURVEY WASTER PIECES AND REPORT VIA CFR AS REQUIRED IN D-09 PARAGRAPH 3.7.1. ~~ADDITIONALLY~~, THE REQUIREMENTS OF D-09 ~~PARAGRAPHS 3~~ INVOLVING PULLING, INSPECTION AND REPLACEMENT OF SEA VALVES SHALL APPLY.

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

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 5-26-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-046

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

3259

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: U.S.C.G. POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-046

NAVY ITEM NO.: D-09

NMIW ITEM NO.: 90

DATE: 5-26-89

LABOR		HOURS	RATE	DOLLARS
1. STRAIGHT TIME	NON AGR	148	35.60	5269
2. OVERTIME				
3. RESERVATION	AGR	64	22.00	1408
4. TOTAL HOURS		212		
5. TOTAL LABOR				
6. MATERIALS				120
7. SUBCONTRACTORS				
8. DELAY/DISRUPTION/IMPACT COST				
9. SUBTOTAL (FEE BEARING COST)	Line 3+6			1528
10. PORT OF PORTLAND USE FEE (LINE 9 x ___%)				+ 87
11. SUBTOTAL				1615
12. P.O.P. TARIFF				0
13. SUBTOTAL				1615
14. FEE (LINE 13 x ___%)				+ 162
15. FCOM				38
16. TOTAL PRICE				5269
17. EXTENSION OF CONTRACT SCHEDULE				7084.00 [redacted]

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED _____

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

R-046

Portland Yard

SHEET 1 OF 1

ITEM: B-09

DATE

PARA	Item Description	Manhours	Material	Total Manhours	Total Material	
(1)	R/R :					
	1 - 4" Gate VALVE			24	10	
	2 - 6" " "			48	10	
	OPEN + INSPECT VALVE + WASTER					NON AGR
	And write Report:					
	1 - 4" Gate VALVE			12	20	
	2 - 6" " "			36	30	
(2)	R/R :					
	2 - 3" Gate VALVES			40	20	AGR
	1 - 6" " "			24	10	
	OPEN + INSPECT COVERED ON A-17			~~0~~		
	Prep Paint			8	10	
	Production Planning			16	10	NON AGR
	R&G			4	~~0~~	

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-046

DATE: 5-26-89

NAVY ITEM NO.: D-09

NMIW ITEM NO.: 90 C

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME	107	36 50	3905
2.	OVERTIME			
3.	RESERVATION	78	22 00	1716
4.	TOTAL HOURS	185		
5.	TOTAL LABOR			
6.	MATERIALS			134
7.	SUBCONTRACTORS			
8.	DELAY/DISRUPTION/IMPACT COST			
9.	SUBTOTAL (FEE BEARING COST) Line 3 + 6			1850
10.	PORT OF PORTLAND USE FEE (LINE 9 x 5.7 %)			+ 105
11.	SUBTOTAL			1955
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			1955
14.	FEE (LINE 13 x ____ %)			+ 196
15.	FCOM 78 x .59			46
16.	~~TOTAL PRICE~~ Line 1			3905
17.	~~EXTENSION OF CONTRACT SCHEDULE~~ Total Price			6102 00

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED 78

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

CHANGE ORDER BUDGET SUMMARY SHEET

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

ITEM NO.: 90 C

DATE: 5-26-89

PRICE PROPOSAL NO.: R-046

TITLE: ADDITIONAL SEA VALVE REPAIR

CRAFT NO.	TOTAL BUDGET HOURS	STRAIGHT TIME	OVERTIME
01			
02			
03 OUTSIDE/INSIDE	61/48		
04	8		
06A			
07			
08			
09			
10			
11			
14			
17	8		
18			
TOTAL	125	125	

SUBCONTRACTOR	SUB HOURS	SUB MATERIAL	SUB PRICE
0			

CHANGE ORDER START DATE: 5-26-89

DURATION (IN DAYS): 4

MANAGEMENT RESERVE

HOURS: 60

DOLLARS: 0

DISTRIBUTION:
ORIGINAL: PROJECT MANAGER
CANARY: SUBCONTRACTING MANAGER
BLUE: DATA PROCESSING

TK

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (8-87)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
USCGC POLAR SEA (WAGB 11)	DTCG85-89-B-55136	R- Ø48	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-11 as changed by R-

TITLE: SEA STRAINER TORQUE BAR #2

110B

Ship's POC: MKC VOLPE/MK1 CROCKETT | Ref CFR: 125

Specifications Prepared by	Date	COTR Approval	Date
R. E. POORE, LCDR	5/25/89	J. J. MCCLELLAND, CAPT	25.5.89

PART II. TECHNICAL APPROVAL, P.R. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK | [ ] NEW WORK
   Add to Basic Item # D-11 | Add Item #
3. Impact of Denial: [X] Mission Essential / [ ] Health and Safety

SRD Review	Date:	(vr) Tech Approval:	Date:	Funds Approval:
G. L. SWAN, LCDR	5/26/89	T. G. GAMBLE, LCDR		

FUNDING: 40-C- - - - - - EST $_____

PART III. SETTLEMENT AGREEMENT (pending mod).

[ ] The contract completion date is extended to _____

[X] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ 679.00 | CHANGE ORDER # A- 26

J. C. PORTER	5-30-89 11:05 Am	
Contracting Officer	Proceed as of Date/Time	Contractor

NWMAR125859

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (8-87)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 2 of
USCGC POLAR SEA (WAGB 11)	DTCG85-89-C-55136	R- 048	2

TITLE: SEA STRAINER TORQUE BAR

CONDITIONS EXISTING: Refer to NWMI CFR 125

SCOPE OF WORK: Contractor shall provide all labor and material to fabricate a new torque bar from 316 stainless steel stock.

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/24/89 JOB NO. 5500

SPEC. ITEM NO. 240 PARA.

SEA STRAINERS #1 DIESEL ROOM PORT SIDE
Spec. Item ~~Title~~

RESPONSE REQUIRED BY: WITHIN 48 HOURS

One (1) torque bar from this strainer shows high deterioration present.

Recommend replacement with stainless stock. Facilities are present to fabricate same.

Change Order Requested to proceed.

CWO, FGED

(PROV. INFO. TO EO)

SHIP'S E.O.

REMARKS:

WILLIAM BLAKE
Name of Company Representative

Machinist Leadman
Position Title

Signature of QA Director

Report No. 125

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS P.O. BOX 3105
PORTLAND, OR 97201

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

PHONE (503) 285-7557

TWX 910-464-6310 NORMARINE PTL

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 5-30-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-048

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

3268

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: U.S.C.G. POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-048

DATE: 5-30-89

NAVY ITEM NO.: D-11

NMIW ITEM NO.: 110

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	24	22.00	528 484
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			100 584
7.	SUBCONTRACTORS			
8.	DELAY/DISRUPTION/IMPACT COST			
9.	SUBTOTAL (FEE BEARING COST)			628
10.	PORT OF PORTLAND USE FEE (LINE 9 x ____%)			+ 36 33
11.	SUBTOTAL			664 617
12.	P.O.P. TARIFF			~~0~~ ~~0~~
13.	SUBTOTAL			664 617
14.	FEE (LINE 13 x ____%)			+ 66 62
15.	FCOM			14 14
16.	TOTAL PRICE			744.00
17.	EXTENSION OF CONTRACT SCHEDULE			~~0~~ DAYS

22 Debit

Sold Porter + AR

679

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED _____

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

R-048

Portland Yard

SHEET 1 OF 1

ITEM: D-11

DATE

	Item Description	Manhours	Material	Total Manhours	Total Material	
PARA	MATERIAL (SST)			0	100	
	REMOVE TO SHOP			8		
	FAB IN SHOP			8		
	INSTALL ON SHIP			8		
	PLANNING			0		
	TOTAL			24	100	

NEW CRAFT CODES

Polar Sea

COMPUTER CODES:
SUBNET _____ COST _____ NAVY ESTIMATE FOR: _____ DATE: _____ PAGE: _____ OF: _____

WORK ITEM NO. D-11 R-048

PARA	DESCRIPTION	01 Transportation	02 Paint/Sandblast	03 Machine Shop	04 Rigger	05 Boilermaker	06 Pipefitter	07 Electrician	08 Quality Assur	09 Facilities	11 Warehouse	12 Carpenters	15 Sheetmetal	17 Labor	PRIME HRS	PRIME MAT'L	SUB HRS	SUB MAT'L	SUB COST	POP	NOTES
3.4.F	Remove To Shop, For																0				
	using SS & Redeliver																				
	To Shop			16											16	100					
	Same As R045																				
	15"																				
	ITEM/PAGE TOTALS																				

NWMAR125865

11

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: U.S.C.G. POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: _____

DATE: _____

NAVY ITEM NO.: _____

NMIW ITEM NO.: _____

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	22	22.00	484
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			100
7.	SUBCONTRACTORS			
8.	DELAY/DISRUPTION/IMPACT COST			
9.	SUBTOTAL (FEE BEARING COST)			584
10.	PORT OF PORTLAND USE FEE (LINE 9 x ____%)			+ 33
11.	SUBTOTAL			617
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			617
14.	FEE (LINE 13 x ____%)			+ 62
15.	FCOM			0
16.	TOTAL PRICE			679

17. EXTENSION OF CONTRACT SCHEDULE _____ DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

_____
NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED _____

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (8-87)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 2 of
USCGC POLAR SEA (WAGB 11)	DTCG85-89-C-55136	R- Ø48	2

TITLE: SEA STRAINER TORQUE BAR

CONDITIONS EXISTING: Refer to NWMI CFR 125

SCOPE OF WORK: Contractor shall provide all labor and material to fabricate a new torque bar from 316 stainless steel stock.

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/24/89 JOB NO. 5500

SPEC. ITEM NO. 240 PARA.

SEA STRAINERS #1 DIESEL ROOM PORT SIDE
Spec. Item ~~Title~~

RESPONSE REQUIRED BY: WITHIN 48 HOURS

One (1) torque bar from this strainer shows high deterioration present.

Recommend replacement with stainless stock. Facilities are present to fabricate same.

Change Order Requested to proceed.

CWO 1560

(PROV. INFO. TO EO)

SHIP'S E.O.

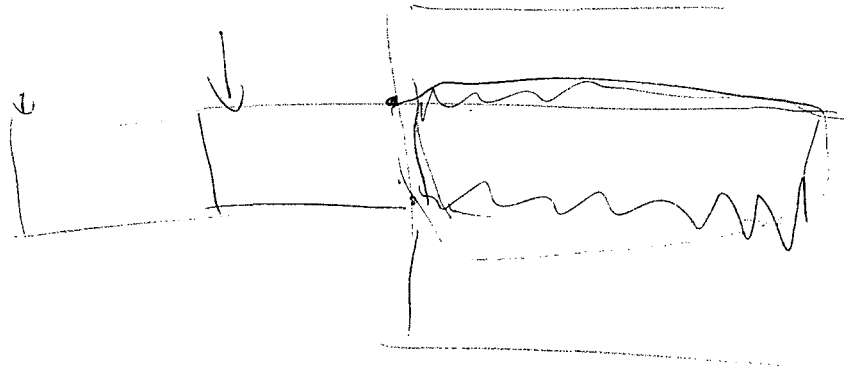
REMARKS:

WILLIAM BLAKE
Name of Company Representative

Machinist Leadman
Position Title

Signature of QA Director

Report No. 125



A-26

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: USCG POLARSEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-048

DATE: 5-30-89

NAVY ITEM NO.: D-11

NMIW ITEM NO.: 110 B

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	22	22.00	484
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			100
7.	SUBCONTRACTORS			
8.	DELAY/DISRUPTION/IMPACT COST			
9.	SUBTOTAL (FEE BEARING COST)			584
10.	PORT OF PORTLAND USE FEE (LINE 9 x 5.7%)			+ 33
11.	SUBTOTAL			617
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			617
14.	FEE (LINE 13 x 10 %)			+ 62
15.	FCOM			0
16.	TOTAL PRICE			679.00
17.	EXTENSION OF CONTRACT SCHEDULE			0 DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED 22

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

CHANGE ORDER BUDGET SUMMARY SHEET

A-26

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

SHIP: USCG POLARSEA

JOB NO.: 5500

ITEM NO.: 110 B

DATE: 5-30-89

PRICE PROPOSAL NO.: R-048

TITLE: FAB - STRAINER TORQUE BAR

CRAFT NO.	TOTAL BUDGET HOURS	STRAIGHT TIME	OVERTIME
01			
02			
03	22		
06			
06A			
07			
08			
09			
10			
11			
14			
17			
18			
TOTAL	22	22	

SUBCONTRACTOR	SUB HOURS	SUB MATERIAL	SUB PRICE
0			

CHANGE ORDER START DATE: 5-30-89

DURATION (IN DAYS): 1

MANAGEMENT RESERVE

HOURS: 0

DOLLARS: 0

DISTRIBUTION:
ORIGINAL: PROJECT MANAGER
CANARY: SUBCONTRACTING MANAGER
BLUE: DATA PROCESSING

PRICE PROPOSAL SUMMARY SHEET

NORTHWEST MARINE IRON WORKS

A-43

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-049

DATE: 6-7-89

NAVY ITEM NO.: D-13

NMIW ITEM NO.: 130J

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	100	22.00	2200
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			227
7.	SUBCONTRACTORS			
8.	~~DELAY/DISRUPTION/IMPACT COST~~ Lin 6 x 10.5% G+A			24
9.	SUBTOTAL (FEE BEARING COST)			2451
10.	PORT OF PORTLAND USE FEE (LINE 9 x 5.7%)			+ 140
11.	SUBTOTAL			2591
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			2591
14.	FEE (LINE 13 x 10 %)			+ 259
15.	FCOM			0
16.	TOTAL PRICE			2850.00
17.	EXTENSION OF CONTRACT SCHEDULE			0 DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED 100

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

CHANGE ORDER BUDGET SUMMARY SHEET

A-43

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

ITEM NO.: 130J

DATE: 6-7-89

PRICE PROPOSAL NO.: R-049

TITLE: STERN TUBE BRG STAVES

CRAFT NO.	TOTAL BUDGET HOURS	STRAIGHT TIME	OVERTIME
01			
02			
03	16		
06	8		
06A			
07			
08			
09			
10			
11			
~~09~~ 12	48		
17			
18			
TOTAL	72		

SUBCONTRACTOR	SUB HOURS	SUB MATERIAL	SUB PRICE
0			

CHANGE ORDER START DATE: 6-7-89

DURATION (IN DAYS): 4

MANAGEMENT RESERVE

HOURS: 28

DOLLARS: 0

DISTRIBUTION:
ORIGINAL: PROJECT MANAGER
CANARY: SUBCONTRACTING MANAGER
BLUE: DATA PROCESSING

Department of Transportation // U.S. Coast Guard // MLCPAC Vpl-1 (8-87)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
USCGC POLAR SEA (WAGB 11)	DTCG65-89-B-55136	R-049	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-13 as changed by R-049

TITLE: STERN TUBE BEARING STAVES 130 J

Ship's POC: MECM CARDONA/MEC VOLPE | Ref CFR: 115

Specifications Prepared by	Date	COTR Approval	Date
R. A. FOORE, LCDR	5/25/89	J. McClelland, CAPT.	25.5.89

PART II. TECHNICAL APPROVAL, P.P. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK [ ] NEW WORK
   Add to Basic Item # D-13 Add Item #
3. Impact of Denial: [X] Mission Essential [ ] Health and Safety

SRD Review	Date	(vr) Tech Approval	Date	Funds Approval
G. L. SWAN, LCDR	5/31/89	J. G. GAMBLE, LCDR		

FUNDING: 40-D- - - - - - EST #

PART III. SETTLEMENT AGREEMENT (pending mod).

[ ] The contract completion date is extended to

[ ] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ 2850.00 CHANGE ORDER # A-43

J. C. PORTER 6-7-89 1600

Contracting Officer Proceed as of Date Time Contractor

NWMAR125874

Contractor shall provide all labor and materials renew two bearing staves mentioned in CFR 115. Three foot long stave material to be utilized shall be government furnished. The contractor shall cut the tops of the new stave material to match the stave height of the removed staves prior to installation. After installation of new staves the contractor shall, in the presence of the Coast Guard Inspector verify that the newly installed staves match in height to the adjacent staves in the bearing.

NWMAR125875

NEW CRAFT CODES

POLAR SEA

COMPUTER CODES:
SUBNET _____ COST _____ NAVY ESTIMATE FOR: _____ DATE: _____ PAGE: _____ OF: _____

WORK ITEM NO. D-13 R-049

PARA	DESCRIPTION	01 Transportation	02 Paint/Sandblast	03 Machine Shop	04 Rigger	05 Boilermaker	06 Pipefitter	07 Electrician	08 Quality Assur	09 Facilities	11 Warehouse	12 Carpenters	15 Sheetmetal	17 Labor	PRIME HRS	PRIME MAT'L	SUB HRS	SUB MAT'L	SUB COST	POP	NOTES
1)	R/R 2EA 3FT 6FM STAVES INSTALL (Remove 16)		64	24								80		120	80	200					
	MILL STAVES TO MATCH EXIST.			16 10											10	10					
	MEASURE HEIGHT AFTER INSTALL			4											4	5					
	CLEAN & DRESS DOVETAILS																				
	STAVES MUST BE FREEZE IN																				
	NITROGEN FOR INSTALLATION			8																	
	MAKE PIPE BATH TO CHARGE W/																				
	NITROGEN 3FT LONG 8" OD																				
	INCL IN INSTALL HRS														94	215					
				24								116			140	215					

ITEM/PAGE TOTALS

NWMAR125876

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/22/89 JOB NO. 5500

SPEC. ITEM NO. 130 PARA.

PORT & STBD INEV. SHAFT BEARINGS
Spec. Item Title

RESPONSE REQUIRED BY: WITHIN 48 HOURS

After pulling and inspection of port bearings and staves, Contractor found that one (1) is loose and moved out 3". It was in this position before removing shaft.

On the stbd bearing, found one (1) stave to be out about 3" also.

Recommend that thse two (2) staves be replaced.

Change Order Requested.

SHIP'S E.O.

REMARKS:

THIS DOCUMENT RELATES TO WORK ITEM(S) WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE CRITICAL PATH.

LEWIS WARD
Name of Company Representative

Machinist,Leadman
Position Title

R L Taylor
Signature of QA Director

Report No. 115

WORK STATEMENT #: R-049 ITEM: D-13 NMIW J.O. #: 5500

TITLE: STERN TUBE BRG STAVES

PROPOSED PRICE: $3,857.34 SPEC #: LB-040-B8

SETTLED PRICE: _____ (%) DATE SETTLED: _____

SUBCONTRACTORS: (Settled Price) (%) SUBCONTRACTS (Proposed)

_____ _____ 0.00

_____ _____ _____

MATERIAL: 215.00 O.T. AUTHORIZED: _____

LABOR HRS: _____ S.A. #: _____ OVERTIME PERCENTAGE 0%

NEGOTIATED BY: KINGREY/RONNINGEN & PORTER

COMMENTS:

CRAFT	1 TRNS	2 PT	3 M/M	4 RIG	5 S/F	6 P/F	7 ELE	8 Q.A.	9 FAC	10 TANK	11 WHS	12 S/W	14 C.O.	15 S/M	16 PLAN	17 F/W	18 LAG	19 DDK	20 SUPV	TOTAL HOURS
PROPOSED HOURS	0	0	24	0	0	0	0	0	0	0	0	116	0	0	0	0	0	0	0	140
SETTLED HOURS																				

MAT'L	SUBS
215	0

NWMAR125878

Work Statement #: R-049 Work Item #: D-13

	PERCENT OF PROGRESS				
PERCENT OF PROGRESS	91% - 100%	WEIGHTED FACTOR	0.60	FACTOR CHOSEN	ERR
	71% - 90%		0.45		
	51% - 70%		0.30		
	31% - 50%		0.15		
	0% - 30%		0.00		
	SIZE OF CHANGE				
SIZE OF CHANGE (LABOR HRS)	1001 AND OVER	INDIVIDUAL BASIS			0.05
	801 - 1000		0.25		
	601 - 800		0.20		
	401 - 600		0.15		
	201 - 400		0.10		
	24 - 200		0.05		
	0 - 23		0.00		
	NUMBER OF EFFECTED CRAFTS				
# EFFECTED CRAFTS (HARDCORE)	16 - 20		0.20		0.05
	11 - 15		0.15		
	6 - 10		0.10		
	1 - 5		0.05		
	AREA OF DISRUPTION				
AREA OF DISRUPTION	SHIP		0.15		0.05
	SHOP		0.05		
	CREDIBILITY OF HARDCORE ESTIMATE				
CREDIBILITY OF HARDCORE EST.	HIGH RISK		0.20		
	AVERAGE RISK		0.10		0.10
	LOW RISK		0.00		

HARD CORE HOURS				140
DISRUPTION HOURS	0.00	x	140	0

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS P.O. BOX 3105
PORTLAND, OR 97208
5555 N. CHANNEL AVE., BLDG. 2
PORTLAND, OREGON 97217
PHONE (503) 285-7557
TWX 910-464-6107 NORMARINE PTL

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 6-5-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. . ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-049

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

3368

==========

05-Jun-89

Commander (vpl)
Maintenance and Logistics Command Pacific
BLDG 50-7, Coast Guard Island
Alameda, CA 94501-5100

Attention: Mr. John Porter, Contracting Officer

SUBJECT: USCGC POLAR SEA (WAGB-11)
NMWI JOB #: 5500
RFP #: R-049
Work Item #: D-13

Dear Mr. Porter:

Northwest Marine Iron Work's price proposal for the performance of the subject Work Statement is $3,857.34 . *THIS QUOTE IS GOOD FOR FIVE DAYS ONLY.*

Labor:

Total AGR Hours	140 HOURS @ $22.00 =		$3,080.00
Material		$215.00	
Subcontracts		$0.00	
Subtotal Material & Subcontracts		215.00	
General & Administrative 10.5% x Matl & Subs		$22.58	
Subtotal Material & Subcontracts		$237.58	237.58
Subtotal Labor, Material & Subcontracts			3317.58
Port of Portland Fee 5.7% of Subtotal Costs			189.10
Port of Portland Services Fee			0.00
Profit			350.67
TOTAL PRICE			3857.34

Terry Ronningen, Estimator/Negotiator
NORTHWEST MARINE IRON WORKS

USCGC POLAR SEA (WAGB-11)

RFP NO. : R-049
ITEM NO.: D-13
DATE: 05-Jun-89

NMIW JOB NO.: 5500

LEAD CRAFT: 12

OVERTIME PERCENTAGE: 0%

% OF PROGRESS 45.0%

ESTIMATED PRODUCTION TIME BY TRADE

PARA.	TRAN	PT	M/M	RIG	S/F	P/F	ELE	Q.A.	FAC	TANK	TOOL/ WHS	S/W	C.O.	S/M	F/W	PLAN	LAG	TOTAL HOURS	MATERIAL	SUBS
1			24									116						140	215	
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
TOTALS	0	0	24	0	0	0	0	0	0	0	0	116	0	0	0	0	0	140	215	0
# CRAFTS	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	2		

THIS QUOTE GOOD FOR FIVE DAYS ONLY, without case basis exception

REQUIRED ADDITIONAL WORK NOT DETAILED IN THE CHANGE ORDER

DESCRIPTION			
DIRECT LABOR PRODUCTION MODIFICATION ANALYSIS	0		
Q.A. REQUIREMENTS	0		
SUPERVISION	0		
UPDATE SCHEDULES	0		
TECH. DOCUMENTATION	0		
GENERAL HOUSEKEEPING	0		
FACILITIES	0		
TOTAL ADDITIONAL WORK	0	0.00	0.00
TOTAL PRODUCTION WORK	140	215.00	0.00
SUBTOTAL	140		
LOCAL DISRUPTION FACTOR 0.00	0		
TOTAL COST	140	215.00	0.00

NWMAR125882

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	P-050	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-13 as changed by P-

TITLE:FABRICATE NEW OUTER BEARING LINER RETAINING STUDS

130G

Ship's POC:CWO FORD/MKCM CARDONA/MKC VOLPE | Ref:CFR 8P

Specifications Prepared by:	Date:	COTR Approval:	Date:
R. J. POORE, LCDR, USCG	5/30/89	J. J. MCCLELLAND, CAPT, USCG	31.5.89

PART II. TECHNICAL APPROVAL, P.R. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK | [ ] NEW WORK
   Add to Basic Item # D-13 | Add Item #
3. Impact of Denial: [X] Mission Essential or [ ] Health and Safety

MLC SRD SEATTLE Review:	Date:	(vr) Tech Approval:	Date:	Funds Approval:
G. L. SWAN, LCDR	5/31/89	J. G. GAMBLE, LCDR, USCG		

FUND CITATION: ORIG EST $ _____

40-C-1-9-33- - -

REV EST $ _____

PART III. SETTLEMENT AGREEMENT By signature below the parties agree that this settlement is considered fair and reasonable and that it constitutes full and final equitable adjustment for this change. The contractor releases the Government from any liability under this contract for further equitable adjustments attributable to facts & circumstances or impact of this change.

CONTRACTOR MUST CHECK ONE OF THE FOLLOWING:

[ ] The contract completion date is extended to _____

[X] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ 25750.00 | CHANGE ORDER # A- 40

J. C. PORTER	6-6-89 5:10 Pm	
Contracting Officer	Proceed as of Date/Time	Contractor

Debit 776 HRS

Department of Transportation // U.S. Coast Guard // MLCPAC/vp1-1 (5-89

C H A N G E O R D E R R E Q U E S T / A U T H O R I Z A T I O N

Ship	Contract No	Request No	Page 2 of
CGC POLAR SEA (WAGB-11)	DTCG35-89-B-55136	P-	2

TITLE:FABRICATE NEW OUTER BEARING LINER RETAINING STUDS

CONDITIONS EXISTING: Reference NWIW OFR 89. The majority of the studs have been bent or damaged from the bearings moving in their lands due to excessive clearances.

SCOPE OF WORK: The contractor shall provide all labor and material to fabricate 58 Outer Bearing Liner Retaining Studs.one oversized stud is to be reused. Stud material is to be 316 stainless steel.to ean out the threaded holes in the stern tube bosses. The threads on the stud ends to be screwed into the stern tube bses are to be custom sized for each threaded hole so as to be a class 3 or better fit. Studs are to be installed with Belzone Supermetal and be bottomed out in their respective holes. Renew one 316 castellated retaining nut.

70% MACH

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/17/89 JOB NO. 5500

SPEC. ITEM NO. 130 PARA.

PROP. TAILSHAFT REMOVAL/INSTALL/BEARING
Spec. Item Title

RESPONSE REQUIRED BY: 5/18/89 Insufficient response time.

Five (5) bearing studs were found missing on stbd bearing, all other studs had been bent requiring straightening, before bearing halves could be removed.

Port and center bearing studs were all in but had been bent and required straightening before bearing halves could be removed.

No provisions have been made for replacement of these studs in this item.

Change Order Requested.

CHIEF FORD
MKCM
MKC VOL.
INSPECTOR'S COPY

SHIP'S E.O. 5/22/89

REMARKS:
Change request will be provided to cover the 5 missing studs. My understanding of this CFR states that the remaining studs will be reused. It should be noted that all studs were custom fit to their holes in the last drydocking and must be returned to the same location to ensure proper fit and tightness upon reinstallation of the bearings. The response date on this CFR will cause no impact to the critical path as hull sandblasting is proceeding at this time and further work on this item.

THIS DOCUMENT RELATES TO WORK ITEM(S) WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE CRITICAL PATH.

GEORGE ROBINSON
Name of Company Representative

Machinist Foreman
Position Title

Signature of QA Director

Report No. 89

NWMAR125885

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/17/89 JOB NO. 5500

SPEC. ITEM NO. 130 PARA.

PROP. TAILSHAFT REMOVAL/INSTALL/BEARING
Spec. Item Title

RESPONSE REQUIRED BY: 5/18/89 Insufficient response time.

Five (5) bearing studs were found missing on stbd bearing, all other studs had been bent requiring straightening, before bearing halves could be removed.

Port and center bearing studs were all in but had been bent and required straightening before bearing halves could be removed.

No provisions have been made for replacement of these studs in this item.

Change Order Requested.

CWO FORD
MKCM
MKC VOL. —

INSPECTOR'S COPY

SHIP'S E.O. 5/22/89

REMARKS:
Change request will be provided to cover the 5 missing studs. My understanding of this CFR states that the remaining studs will be reused. It should be noted that all studs were custom fit to their holes in the last drydocking and must be returned to the same location to ensure proper fit and tightness upon reinstallation of the bearings. The response date on this CFR will cause no impact to the critical path as hull sandblasting is proceeding at this time preventing any further work on this item.

THIS DOCUMENT RELATES TO WORK ITEM(S) WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE CRITICAL PATH.

GEORGE ROBINSON
Name of Company Representative

Machinist Foreman
Position Title

Signature of QA Director

Report No. 89

NEW CRAFT CODES

COMPUTER CODES:
SUBNET _____ COST _____ NAVY ESTIMATE FOR: D-13 DATE: _____ PAGE: _____ OF: _____

WORK ITEM NO. R-050

PARA	DESCRIPTION	01 Transportation	02 Paint/Sandbla	03 Machine Shop	04 Rigger	05 Boilermaker	06 Pipefitter	07 Electrician	08 Quality Assu	09 Facilities	11 Warehouse	12 Carpenters	15 Sheetmetal	17 Labor	PRIME HRS	PRIME MAT'L	SUB HRS	SUB MAT'L	SUB COST	POP	NOTES
1)	Machine 59 EA 1 1/8" X 6 1/2" SS Studs																				
	@ 2.5/30.00 59/3/30														148						
	Studs are standard thread one end																				
	Fitted thread #3 fit on the other			177 146											177 150	2000					
2)	Clean out the holes in stern tube															1200					
	casting by chasing w/tap & blowing.																				
	1/2 @ 1.5/2			88 60											88 60	120					
3)	Custom fit 59 studs to a #3 or																				
	better fit @ 10 8/5			590 480											480 480	300					
4)	Install 59 EA studs w/ belzona																				
	@ 2/10			120											60 120	600					
	59 studs = 13.7/54.00 EA + POP & Profit = 39250			975									1000		810	3200			1000		3 days JLG
	Mininum Bottom Line						New Work								= 39250						
	59 studs 11.5/54.00 EA + POP + Profit = 33600																				
	Absolute Bottom $ 32000																				

Note: ← 30,000 →

ITEM/PAGE TOTALS

59 EA X 16 Hrs X 22.00 + MAT'L + POP + Profit = 29030

16 ACR 10,000 8 Hrs. 10 Hrs

NWMAR125887

WORK STATEMENT #: R-050 ITEM: D-13 NMIW J.O. #: 5500

TITLE: FAB OUTER BRG LINER RTNG STUDS

PROPOSED PRICE: $30,104.74 SPEC #: LB-040-88

SETTLED PRICE: _____ (%) DATE SETTLED: _____

SUBCONTRACTORS: (Settled Price) (%) SUBCONTRACTS (Proposed)

_____ _____ 0.00

_____ _____ _____

MATERIAL: 4020.00 O.T. AUTHORIZED: _____

LABOR HRS: _____ S.A. #: _____ OVERTIME PERCENTAGE 0%

NEGOTIATED BY: KINGREY/RONNINGEN & PORTER

COMMENTS:

CRAFT	1 TRNS	2 PT	3 M/M	4 RIG	5 S/F	6 P/F	7 ELE	8 Q.A.	9 FAC	10 TANK	11 WHS	12 S/W	14 C.O.	15 S/M	16 PLAN	17 F/W	18 LAG	19 DDK	20 SUPV	TOTAL HOURS
PROPOSED HOURS	0	0	975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	975
SETTLED HOURS																				

MAT'L	SUBS
4020	0

Work Statement #: R-050 Work Item #: D-13

	PERCENT OF PROGRESS				
PERCENT OF PROGRESS	91% - 100%	WEIGHTED FACTOR	0.60	FACTOR CHOSEN	ERR
	71% - 90%		0.45		
	51% - 70%		0.30		
	31% - 50%		0.15		
	0% - 30%		0.00		
	SIZE OF CHANGE				
SIZE OF CHANGE (LABOR HRS)	1001 AND OVER	INDIVIDUAL BASIS			0.25
	801 - 1000		0.25		
	601 - 800		0.20		
	401 - 600		0.15		
	201 - 400		0.10		
	24 - 200		0.05		
	0 - 23		0.00		
	NUMBER OF EFFECTED CRAFTS				
# EFFECTED CRAFTS (HARDCORE)	16 - 20		0.20		0.05
	11 - 15		0.15		
	6 - 10		0.10		
	1 - 5		0.05		
	AREA OF DISRUPTION				
AREA OF DISRUPTION	SHIP		0.15		0.15
	SHOP		0.05		
	CREDIBILITY OF HARDCORE ESTIMATE				
CREDIBILITY OF HARDCORE EST.	HIGH RISK		0.20		
	AVERAGE RISK		0.10		0.10
	LOW RISK		0.00		

HARD CORE HOURS				975
DISRUPTION HOURS	0.00	x	975	0

05-Jun-89

Commander (vpl)
Maintenance and Logistics Command Pacific
BLDG 50-7, Coast Guard Island
Alameda, CA 94501-5100

Attention: Mr. John Porter, Contracting Officer

SUBJECT: USCGC POLAR SEA (WAGB-11)
NMWI JOB #: 5500
RFP #: R-050
Work Item #: D-13

Dear Mr. Porter:

Northwest Marine Iron Work's price proposal for the performance of the subject Work Statement is **********. *THIS QUOTE IS GOOD FOR FIVE DAYS ONLY.*

Labor:

Total AGR Hours	975 HOURS @ $22.00 =		$21,450.00
Material		$4,020.00	
Subcontracts		$0.00	
Subtotal Material & Subcontracts		4020.00	
General & Administrative 10.5% x Matl & Subs		$422.10	
Subtotal Material & Subcontracts		$4,442.10	4442.10
Subtotal Labor, Material & Subcontracts			25892.10
Port of Portland Fee 5.7% of Subtotal Costs			1475.85
Port of Portland Services Fee			0.00
Profit			2736.79
TOTAL PRICE			30104.74

Terry Ronningen, Estimator/Negotiator
NORTHWEST MARINE IRON WORKS

USCGC POLAR SEA (WAGB-11)

RFP NO. : R-050
ITEM NO.: D-13
DATE: 05-Jun-89

NMIW JOB NO.: 5500

LEAD CRAFT: 03

OVERTIME PERCENTAGE: 0%

% OF PROGRESS 45.0%

ESTIMATED PRODUCTION TIME BY TRADE

PARA.	TRAN	PT	M/M	RIG	S/F	P/F	ELE	Q.A.	FAC	TANK	TOOL/ WHS	S/W	C.O.	S/M	F/W	PLAN	LAG	TOTAL HOURS	MATERIAL	SUBS
1			177															177	2000	
2			88															88	120	
3			590															590	300	
4			120															120	600	
JLG																		0	1000	
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
TOTALS	0	0	975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	975	4020	0
# CRAFTS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		

THIS QUOTE GOOD FOR FIVE DAYS ONLY, without case basis exception

REQUIRED ADDITIONAL WORK NOT DETAILED IN THE CHANGE ORDER

DESCRIPTION			
DIRECT LABOR PRODUCTION MODIFICATION ANALYSIS	0		
Q.A. REQUIREMENTS	0		
SUPERVISION	0		
UPDATE SCHEDULES	0		
TECH. DOCUMENTATION	0		
GENERAL HOUSEKEEPING	0		
FACILITIES	0		
TOTAL ADDITIONAL WORK	0	0.00	0.00
TOTAL PRODUCTION WORK	975	4020.00	0.00
SUBTOTAL	975		
LOCAL DISRUPTION FACTOR 0.00	0		
TOTAL COST	975	4020.00	0.00

NWMAR125891

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS P.O. BOX 3105
PORTLAND, OR 97208

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

PHONE (503) 285-7557

TWX 910-464-6107 NORMARINE PTL

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 6-5-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-050

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

3375

05-Jun-89

Commander (vpl)
Maintenance and Logistics Command Pacific
BLDG 50-7, Coast Guard Island
Alameda, CA 94501-5100

Attention: Mr. John Porter, Contracting Officer

SUBJECT: USCGC POLAR SEA (WAGB-11)
NMWI JOB #: 5500
RFP #: R-050
Work Item #: D-13

Dear Mr. Porter:

Northwest Marine Iron Work's price proposal for the performance of the subject Work Statement is ********** *THIS QUOTE IS GOOD FOR FIVE DAYS ONLY.*

Labor:

Total AGR Hours	975 HOURS @ $22.00 =		$21,450.00
Material		$4,020.00	
Subcontracts		$0.00	
Subtotal Material & Subcontracts		4020.00	
General & Administrative 10.5% x Matl & Subs		$422.10	
Subtotal Material & Subcontracts		$4,442.10	4442.10
Subtotal Labor, Material & Subcontracts			25892.10
Port of Portland Fee 5.7% of Subtotal Costs			1475.85
Port of Portland Services Fee			0.00
Profit			2736.79
TOTAL PRICE			30104.74

Terry Ronningen, Estimator/Negotiator
NORTHWEST MARINE IRON WORKS

USCGC POLAR SEA (WAGB-11)

RFP NO. : R-050
ITEM NO.: D-13
DATE: 05-Jun-89

NMIW JOB NO.: 5500

LEAD CRAFT: 03

OVERTIME PERCENTAGE: 0%

% OF PROGRESS 45.0%

ESTIMATED PRODUCTION TIME BY TRADE

PARA.	TRAN	PT	M/M	RIG	S/F	P/F	ELE	Q.A.	FAC	TANK	TOOL/ WHS	S/W	C.O.	S/M	F/W	PLAN	LAG	TOTAL HOURS	MATERIAL	SUBS
1			177															177	2000	
2			88															88	120	
3			590															590	300	
4			120															120	600	
JL6																		0	1000	
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
TOTALS	0	0	975	0	0	0	0	0	0	0	0	0	0	0	0	0	0	975	4020	0
# CRAFTS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		

THIS QUOTE GOOD FOR FIVE DAYS ONLY, without case basis exception

REQUIRED ADDITIONAL WORK NOT DETAILED IN THE CHANGE ORDER

DESCRIPTION			
DIRECT LABOR PRODUCTION MODIFICATION ANALYSIS	0		
Q.A. REQUIREMENTS	0		
SUPERVISION	0		
UPDATE SCHEDULES	0		
TECH. DOCUMENTATION	0		
GENERAL HOUSEKEEPING	0		
FACILITIES	0		
TOTAL ADDITIONAL WORK	0	0.00	0.00
TOTAL PRODUCTION WORK	975	4020.00	0.00
SUBTOTAL	975		
LOCAL DISRUPTION FACTOR 0.00	0		
TOTAL COST	975	4020.00	0.00

A-40

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: USCG POLARSEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-050

DATE: 6-6-89

NAVY ITEM NO.: D-13

NMIW ITEM NO.: 130 G

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	776	22.00	17072
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			4593
7.	SUBCONTRACTORS			
8.	~~DELAY/DISRUPTION/IMPACT COST~~ Line 6 x 10.5% G+A			482
9.	SUBTOTAL (FEE BEARING COST)			22147
10.	PORT OF PORTLAND USE FEE (LINE 9 x 5.7%)			+ 1262
11.	SUBTOTAL			23409
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			23409
14.	FEE (LINE 13 x 10 %)			+ 2341
15.	FCOM			0
16.	TOTAL PRICE			25750
17.	EXTENSION OF CONTRACT SCHEDULE			0 DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED 776

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

CHANGE ORDER BUDGET SUMMARY SHEET

NORTHWEST MARINE IRON WORKS

A-40

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

ITEM NO.: 130 G

DATE: 6-6-89

PRICE PROPOSAL NO.: R-050

TITLE: FAB NEW OUTER BRG LINER RETAING STUDS

CRAFT NO.	TOTAL BUDGET HOURS	STRAIGHT TIME	OVERTIME
01	4	4	
02		236 OUTSIDE	
03	531	295 INSIDE	
06			
06A			
07			
08			
09			
10			
11			
14			
17			
18			
TOTAL	535	535	

SUBCONTRACTOR	SUB HOURS	SUB MATERIAL	SUB PRICE
Ø			

CHANGE ORDER START DATE: 6-6-89

DURATION (IN DAYS): 4

MANAGEMENT RESERVE

HOURS: 241 @ 22.00

DOLLARS: 1000.00

DISTRIBUTION:
ORIGINAL: PROJECT MANAGER
CANARY: SUBCONTRACTING MANAGER
BLUE: DATA PROCESSING

Rcd 6-8-89

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R- Ø52	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-09 as changed by R- Ø52

TITLE: SEA VALVE REPAIRS #3

90D

Ship's POC: MK1 CROCKETT/MK2 BARNETT | Ref CFR:

Specifications Prepared by:	Date:	COTR Approval:	Date:
R. G. MOORE, LCDR, USCG	5/3/89	J. J. MCCLELLAND, CAPT, USCG	1.6.89

PART II. TECHNICAL APPROVAL, P.R. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK [ ] NEW WORK
   Add to Basic Item # D-09 Add Item #
3. Impact of Denial: [X] Mission Essential or [ ] Health and Safety

MLC 5RD SEATTLE Review:	Date:	(vr) Tech Approval:	Date:	Funds Approval:
G. L. SWAN, LCDR	6/6/89	J. Q. GAMBLE, LCDR, USCG		/

FUND CITATION: ORIG EST $_____

40-0-1-9-88- - -

REV EST $_____

PART III. SETTLEMENT AGREEMENT By signature below the parties agree that this settlement is considered fair and reasonable and that it constitutes full and final equitable adjustment for this change. The contractor releases the Government from any liability under this contract for further equitable adjustments attributable to facts & circumstances or impact of this change.

CONTRACTOR MUST CHECK ONE OF THE FOLLOWING:

[ ] The contract completion date is extended to _____

[X] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ 860.00 | CHANGE ORDER # A- 46

J. C. PORTER	6-8-89 5:00 PM	
Contracting Officer	Proceed as of Date/Time	Contractor

NWMAR125897

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 2 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R-052	2

TITLE: SEA VALVE REPAIRS

CONDITIONS EXISTING: JOINT INSPECTION OF SEA VALVES SHOW 5 ARE IN NEED OF NEW FASTENERS AT THE PACKING GLANDS.

SCOPE OF WORK: CONTRACTOR TO PROVIDE ALL LABOR AND MATERIALS NECESSARY TO RENEW (WITH CRS 304 OR BETTER) THE FASTENERS AT THE PACKING GLANDS AS PER ATTACHED CONDITION FOUND REPORTS.

VALVE INSPECTION

USCGC POLAR SEA ITEM NO: 90

VALVE NO: 112 (Port) sea chest steam out LOCATION: DS6-2

CONDITIONS FOUND: ~~[illegible]~~

PARAGRAPH: 3.4 ~~[illegible]~~ SAT

BOLTING CONDITION: Renew Replace packing gland Hold down retaining

PARAGRAPH: 3.5.2 bolts with stainless steel bolts

WASTER PIECES: none

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

VALVE INSPECTION

USCGC POLAR SEA

ITEM NO: 90

VALVE NO: 33K DSL DISCHARGE

LOCATION: DSL-2

CONDITIONS FOUND: ~~REPLACE~~ Renew gate to stem pin with 316 stainless nut + bolt.

PARAGRAPH: 3.4

BOLTING CONDITION: ~~Replace~~ Renew packing gland nut & bolts with stainless.

PARAGRAPH: 3.5.2

WASTER PIECES: None

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

VALVE INSPECTION

USCGC POLAR SEA — ITEM NO: 90

E NO: F2112 StBD — LOCATION: DSL-2 Sea chest Steamout

ITIONS FOUND: Satisfactory ~~[illegible]~~

AGRAPH: 3.4 ~~[illegible]~~

LTING CONDITION: ~~Replace~~ Renew bonnet bolts with stainless

ARAGRAPH: 3.5.2 ~~Replace~~ Renew packing gland bolt with stainless

ASTER PIECES: NONE

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

VALVE INSPECTION

SHIP: USCGC POLAR SEA ITEM NO: 70

VALVE NO: 1A DSL Discharge LOCATION: Diesel 1

CONDITIONS FOUND: Damage pin holding gate to stem; Damaged threads on stem

PARAGRAPH: 3.4

Renew ~~Replaced~~ packing gland bolts & nuts with 316 stainless steel.

BOLTING CONDITION: Satisfactory

PARAGRAPH: 3.5.2

WASTER PIECES: None

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS: Contractor recommends to ~~replace~~ renew Pin hold gate to stem with 316 stainless. Bolt and Nut and Dressing up Damage threads on stem.

VALVE INSPECTION

SHIP: USCGC POLAR SEA ITEM NO: 90

VALVE NO: DSL 2 TO DSL 1 X connect LOCATION: DSL-2

CONDITIONS FOUND: Renew Retaining ~~[illegible]~~ pin holes in gate, (elongated)

PARAGRAPH: 3.4 Replace pin with 316 stainless steel nut & Bolt.

Bolting → Replace packing gland adjusting bolt & nut with stainless steel.

~~Replace packing gland adjusting~~

~~Replace adjusting packing gland bolting~~

BOLTING CONDITION: Replace packing gland adjusting bolt RETAINING

PARAGRAPH: 3.5.2 bolt & NUT with STAINLESS Steel.

WASTER PIECES: None.

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS P.O. BOX 3100
PORTLAND, OR 97208

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

PHONE (503) 285-7557

TWX: 910-464-6107 NORMARINE PTL

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 6-7-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-052

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

3402

07-Jun-89

Commander (vpl)
Maintenance and Logistics Command Pacific
BLDG 50-7, Coast Guard Island
Alameda, CA 94501-5100

Attention: Mr. John Porter, Contracting Officer

SUBJECT: USCGC POLAR SEA (WAGB-11)
NMWI JOB #: 5500
RFP #: R-052
Work Item #: D-09

Dear Mr. Porter:

Northwest Marine Iron Work's price proposal for the performance of the subject Work Statement is $972.48 . *THIS QUOTE IS GOOD FOR FIVE DAYS ONLY.*

Labor:

Total AGR Hours	34 HOURS @ $22.00 =		$748.00
Material		$80.00	
Subcontracts		$0.00	
Subtotal Material & Subcontracts		80.00	
General & Administrative 10.5% x Matl & Subs		$8.40	
Subtotal Material & Subcontracts		$88.40	88.40
Subtotal Labor, Material & Subcontracts			836.40
Port of Portland Fee 5.7% of Subtotal Costs			47.67
Port of Portland Services Fee			0.00
Profit			88.41
TOTAL PRICE			972.48

Terry Ronningen, Estimator/Negotiator
NORTHWEST MARINE IRON WORKS

USCGC POLAR SEA (WAGB-11)

RFP NO. : R-052
ITEM NO.: D-09
DATE: 07-Jun-89

NMIW JOB NO.: 5500

LEAD CRAFT: 3

OVERTIME PERCENTAGE: 0%

% OF PROGRESS 82.0%

ESTIMATED PRODUCTION TIME BY TRADE

PARA.	TRAN	PT	M/M	RIG	S/F	P/F	ELE	Q.A.	FAC	TANK	TOOL/ WHS	S/W	C.O.	S/M	LAB	PLAN	LAG	TOTAL HOURS	MATERIAL	SUBS
1			34															34	80	
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
TOTALS	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34	80	0
# CRAFTS	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		

THIS QUOTE GOOD FOR FIVE DAYS ONLY, without case basis exception

REQUIRED ADDITIONAL WORK NOT DETAILED IN THE CHANGE ORDER

DESCRIPTION			
DIRECT LABOR PRODUCTION MODIFICATION ANALYSIS	0		
Q.A. REQUIREMENTS	0		
SUPERVISION	0		
UPDATE SCHEDULES	0		
TECH. DOCUMENTATION	0		
GENERAL HOUSEKEEPING	0		
FACILITIES	0		
TOTAL ADDITIONAL WORK	0	0.00	0.00
TOTAL PRODUCTION WORK	34	80.00	0.00
SUBTOTAL	34		
LOCAL DISRUPTION FACTOR 0.00	0		
TOTAL COST	34	80.00	0.00

Department of Transportation // U.S. Coast Guard // MLCPAC/vpi-1 (5-89)

C H A N G E O R D E R R E Q U E S T / A U T H O R I Z A T I O N

Ship	Contract No	Request No	Page 2 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R-052	2

TITLE: SEA VALVE REPAIRS

CONDITIONS EXISTING: JOINT INSPECTION OF SEA VALVES SHOW 5 ARE IN NEED OF NEW FASTENERS AT THE PACKING GLANDS.

SCOPE OF WORK: CONTRACTOR TO PROVIDE ALL LABOR AND MATERIALS NECESSARY TO RENEW (WITH CRS 304 OR BETTER) THE FASTENERS AT THE PACKING GLANDS AS PER ATTACHED CONDITION FOUND REPORTS.

VALVE INSPECTION

USCGC POLAR SEA

ITEM NO: '90

VALVE NO#: 112 (port) sea chest steam out

LOCATION: NSL-2

CONDITIONS FOUND: ~~[illegible]~~

PARAGRAPH: 3.4 ~~Retaining bolts with [illegible]~~ SAT

1 1/2 Gate

BOLTING CONDITION: Replace packing gland Hold down retaining bolts with stainless steel bolts

PARAGRAPH: 3.5.2

Renew

WASTER PIECES: none

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

VALVE INSPECTION

: USCGC POLAR SEA ITEM NO: 90 (2)

ALVE NO: 33B DSL DISCHARGE LOCATION: DSL-2

CONDITIONS FOUND: ~~REPLACE~~ Renew gate to stem pin with 316 stainless

PARAGRAPH: 3.4 Nut + bolt.

2" globe

BOLTING CONDITION: ~~Replace~~ Renew packing gland nut & bolts with

PARAGRAPH: 3.5.2 stainless.

WASTER PIECES: None

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

VALVE INSPECTION

(3)

USCGC POLAR SEA

ITEM NO: 90

VE NO#: FR 112 StBD

LOCATION: DSL-2 ~~Sea~~ chest steamout

CONDITIONS FOUND: Satisfactory ~~[illegible]~~

PARAGRAPH: 3.4 ~~[illegible]~~

BOLTING CONDITION: ~~Replace~~ Renew bonnet bolts with stainless

PARAGRAPH: 3.5.2 ~~Replace~~ Renew packing gland bolt with stainless

WASTER PIECES: NONE

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

(4)

VALVE INSPECTION

SHIP: USCGC POLAR SEA ITEM NO: 90

VALVE NO#: 1A DSL Discharge LOCATION: Diesel 1

CONDITIONS FOUND: Damage pin holding gate to

PARAGRAPH: 3.4 stem. Damaged threads on stem

Renew ~~Replaced~~ packing gland bolts & nuts with 316 stainless steel.

5" globe

BOLTING CONDITION: Satisfactory

PARAGRAPH: 3.5.2

WASTER PIECES: None

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS: Contractor recommends to ~~replace~~ Renew Pin hold gate to stem with 316 Stainless Bolt and Nut and Dressing up Damage threads on stem.

5" gate (5)

VALVE INSPECTION

SHIP: USCGC POLAR SEA ITEM NO: 90

VALVE NO: DSL2 To DSL1 ✓ connect LOCATION: DSL-2

CONDITIONS FOUND: Renew Retaining ~~[illegible]~~ pin holes in gate, (elongated)

PARAGRAPH: 3.4 Replace pin with 316 stainless steel nut & Bolt.

Bolting → Replace packing gland adjusting bolt & nut with stainless steel.

~~Replace packing gland adjusting~~

~~Replace adjusting packing gland bolting~~

BOLTING CONDITION: Replace packing gland adjusting bolt RETAINING

PARAGRAPH: 3.5.2 bolt & NUT with stainless steel.

WASTER PIECES: None.

PARAGRAPH: 3.7.1

RECOMMENDED REPAIRS:

NWMAR125912

Portland Yard

D-09

SHEET 1 OF 1

ITEM: R-052

DATE

	Item Description	Manhours	Material	Total Manhours	Total Material
~~PARA~~					
(1)	~~1-1½ Gate (Packing Gland Bolts)~~			2	10
	~~FAB (1)~~				
	~~R/R (1)~~				
(2)	1-2" Globe				
	Renew Pin			2	10
	Renew Packing Gland Bolts FAB + R/R			2	10
(3)	~~1-1½" Gate~~				
	~~Renew Bonnet Bolts~~			4	10
	~~Renew Packing Gland Bolts FAB + R/R~~			2	10
(4)	1-5" Globe				
	Renew Packing Gland Bolts FAB/R/R			2	10
(5)	1-5" Gate				
	Renew Pin			2	10
	Renew Packing Gland Bolts FAB/R/R			2	10
	Planning 8			~~8~~ 16	
	MACH				
	TOTAL				

26 80

NWMAR125913

WORK STATEMENT #: R-052 ITEM: D-09 NMIW J.O. #: 5500

TITLE: SEA VALVE REPAIRS

PROPOSED PRICE: $972.48 SPEC #: LB-040-88

SETTLED PRICE: _____ (%) DATE SETTLED: _____

SUBCONTRACTORS: (Settled Price) (%) SUBCONTRACTS (Proposed)

_____ _____ 0.00

_____ _____ _____

MATERIAL: 80.00 O.T. AUTHORIZED: _____

OVERTIME PERCENTAGE

LABOR HRS: _____ S.A. #: _____ 0%

NEGOTIATED BY: KINGREY/RONNINGEN & PORTER

COMMENTS:

CRAFT	1 TRNS	2 PT	3 M/M	4 RIG	5 S/F	6 P/F	7 ELE	8 Q.A.	9 FAC	10 TANK	11 WHS	12 S/W	14 C.O.	15 S/M	16 PLAN	17 LAB	18 LAG	19 DDK	20 SUPV	TOTAL HOURS
PROPOSED HOURS	0	0	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
SETTLED HOURS																				

MAT'L	SUBS
80	0

A-46

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-052

DATE: 6-8-89

NAVY ITEM NO.: D-09

NMIW ITEM NO.: 90D

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	31	22.00	682
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			53
7.	SUBCONTRACTORS			
8.	~~DELAY/DISRUPTION/IMPACT COST~~ Line 6 x 10.5% G+A			5
9.	SUBTOTAL (FEE BEARING COST)			740
10.	PORT OF PORTLAND USE FEE (LINE 9 x 5.7 %)			+ 42
11.	SUBTOTAL			782
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			782
14.	FEE (LINE 13 x 10 %)			+ 78
15.	FCOM			0
16.	TOTAL PRICE			860.00
17.	EXTENSION OF CONTRACT SCHEDULE			0 DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED 31

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

CHANGE ORDER BUDGET SUMMARY SHEET

A-46

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

SHIP: USCG POLARSEA

JOB NO.: 5500

ITEM NO.: 90D

DATE: 6-8-89

PRICE PROPOSAL NO.: R-052

TITLE: ADDITIONAL SEA VALVE REPAIRS

CRAFT NO.	TOTAL BUDGET HOURS	STRAIGHT TIME	OVERTIME
01			
02			
03	24	OUTSIDE 12 / 12 INSIDE	
06			
06A			
07			
08			
09			
10			
11			
14			
17			
18			
TOTAL	24	24	

SUBCONTRACTOR	SUB HOURS	SUB MATERIAL	SUB PRICE
0			

CHANGE ORDER START DATE: 6-8-89

DURATION (IN DAYS): 2

MANAGEMENT RESERVE

HOURS: 7

DOLLARS: 0

DISTRIBUTION:
ORIGINAL: PROJECT MANAGER
CANARY: SUBCONTRACTING MANAGER
BLUE: DATA PROCESSING

Department of Transportation // U.S. Coast Guard // MLCPAC/vpl-1 (5-89)

CHANGE ORDER REQUEST / AUTHORIZATION

Ship	Contract No	Request No	Page 1 of
CGC POLAR SEA (WAGB-11)	DTCG85-89-B-55136	R- Ø53	2

PART I. REQUEST. The COTR certifies that the work described below must be performed during this availability and requests issuance of a Change Order.

CHANGE ORDER SPECIFICATION CHANGE ITEM# D-13 as changed by R- Ø53

TITLE: PORT AND CENTERLINE MUFF COUPLING REPAIRS

130K

Ship's POC: CWO3 FORD/MKCM CARDONA/MKC VOLPE | Ref CFR: 141, 149

Specifications Prepared by:	Date:	COTR Approval:	Date:
R. D. POORE, LCDR, USCG	5/31/89	J. J. McCLELLAND, CAPT, USCG	1.6.89

PART II. TECHNICAL APPROVAL, P.R. AND STATEMENT OF ESSENTIAL NEED.

1. Description: See Specification in Part I.
2. Primary Need: [X] GROWTH WORK | [ ] NEW WORK
   Add to Basic Item # D-13 | Add Item #
3. Impact of Denial: [X] Mission Essential or [ ] Health and Safety

MLC SRD SEATTLE Review:	Date:	(vr) Tech Approval:	Date:	Funds Approval:
C. J. SWAN, LCDR	6/2/89	J. Q. GAMBLE, LCDR, USCG		/

FUND CITATION: ORIG EST $_____

40-C-1-9-33- - -

REV EST $_____

PART III. SETTLEMENT AGREEMENT By signature below the parties agree that this settlement is considered fair and reasonable and that it constitutes full and final equitable adjustment for this change. The contractor releases the Government from any liability under this contract for further equitable adjustments attributable to facts & circumstances or impact of this change.

CONTRACTOR MUST CHECK ONE OF THE FOLLOWING:

[ ] The contract completion date is extended to _____

[X] The contract completion date is not extended because of this change.

SETTLEMENT PRICE: $ 7302.00 | CHANGE ORDER # A- 47

J. C. PORTER	6-9-89 15:10	
Contracting Officer	Proceed as of Date/Time	Contractor

NWMAR125917

TITLE: PORT AND CENTERLINE MUFF COUPLING REPAIRS

CONDITIONS EXISTING: The clearance between the propeller shaft OD and the muff coupling ID on the centerline shaft is 0.058 inches too large to obtain a proper "O" ring seal. The clearance between the propeller shaft OD and the muff coupling ID on the port shaft is 0.040 inches too large to obtain a proper "O" ring seal.

SCOPE OF WORK: Contractor shall provide all labor and materials necessary to affect repairs to the centerline and port muff couplings as outlined by CGC POLAR SEA change request R92 to contract number DTCG33-87-C-02165 dated 97JUL09 (See attached).

Department of Transportation
U.S. Coast Guard
CCGD13-72 (Int. Rev. 5/82)

CFR 141

PRICE PROPOSAL

VESSEL	CONTRACT NO.	REQUEST NO.	Page 1 of
USCGC POLAR SEA (WAGB-11)	DTCG33-87-C-02165	R92	

CHECK ONE:
[X] The specifications are modified as follows: D-Item No._____
[ ] Add the following new work to the specifications:

ITEM DESCRIPTION:

STARBOARD MUFF COUPLING REPAIRS

1. GENERAL SCOPE: The intent of this item is to return the starboard muff coupling piston (previously mounted within the port coupling) to original design dimensions, thus reducing the component clearances and facilitating its ability to be"jumped" on and off.

2. REFERENCES:
a. CG DWG 400-WAGB-9022-E
b. O'Ring Groove Design Brochure (Attached)

3. STATEMENT OF WORK: The contractor shall provide all labor and materials required to accomplish the following:

1. Perform a diamtric check of the forward portion of the starboard shaft. The check shall include as a minimum the following:
A. Shaft diameter at the root of the forward O'ring groove

Specifications prepared by:	Date:	Technical Review By:	Date:
G. M. DAVIS, LCDR	87JUL09	G. M. DAVIS, LCDR	87JUL09

I certify that the above job, as described, is necessary for the overhaul of the vessel.

Signature:_____
(Commanding Officer) (Date)

The undersigned agrees that the above described work will be accomplished at the price stated and will be completed by the specified completion date.

Add Item No. [ ] TOTAL PRICE:_____

The work WILL [ ] WILL NOT [ ] require extension of the contract completion date.
The work will completed by the following date:_____

Signature:_____ Date:_____
Contractor:_____ Title:_____

FUNDS APPROVAL: CCGD13 (ene) The price stated by the Contractor is considered to be fair and reasonable. Funds are approved under:

MOD:_____ Signature:_____

CONTRACT MODIFICATION AUTHORIZED:

Signature:_____ DATE:_____
(Contracting Officer)

STARBOARD MUFF COUPLING REPAIRS

B. Shaft diameters on either side of the o'ring groove.
~~C. Shaft diameters and muff coupling inside diameters at the horizontal and vertical locations along the entire lengths of the tapers, at four evenly spaced locations.~~ DMD

~~2. Graph the coupling and tail shaft diameters (Para. 1c) against the axial dimension so that the relative fit can be determined.~~ DMD

3. Using a spray metal procedure, compatible to the parent metal of the coupling piston, build-up the ID of the piston approximately .125" across the entire length of the o'ring seating bore.

4. Using the diametric readings of Para 1.a. and 1.b. and the o'ring design criteria outlined in reference (b), determine the piston inside diameter required to obtain the minimum C/S squeeze and total diametric clearance for a 8425 to 8475 size o'ring at 2,000 psi fluid pressure,

5. After the above dimension has been SUBMITTED BY CFR AND approved by the Engineer Officer, machine the coupling piston to that diameter.

6. Camber the piston o'ring entrance to 45 degrees. The resulting "ramp" shall be approximately .100 inches wide.

7. Polish the piston ID to a 20/24 RMS finish. Break all corners to an approximate .005 inch radius.

8. Reassemble the starboard muff using a 70, or better, Durometer ¼ inch o'ring (8425 to 8475 size). 2-463 PARKER 4145 4.415 EA

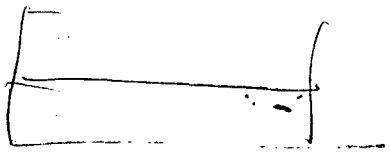
9. The Engineer Officer shall be present for the final assembly of the coupling.

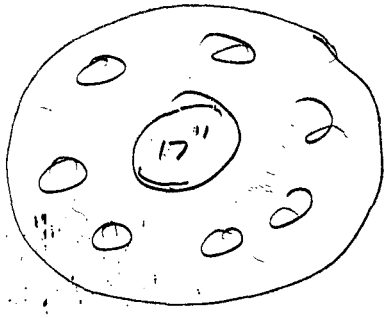
~~10. Taper incompatibility shall be the subject of a separate change request, if required.~~ DMD

GREG -

3-5 days

760





O-ring Groove Design

Generally speaking, the largest cross section possible should be used. This will provide maximum sealing effectiveness, and the longest service life. This is particularly true in dynamic sealing situations where the small cross section provides insufficient contact area for good sealing. Specifically, we do not recommend that the following be used in dynamic sealing situations:

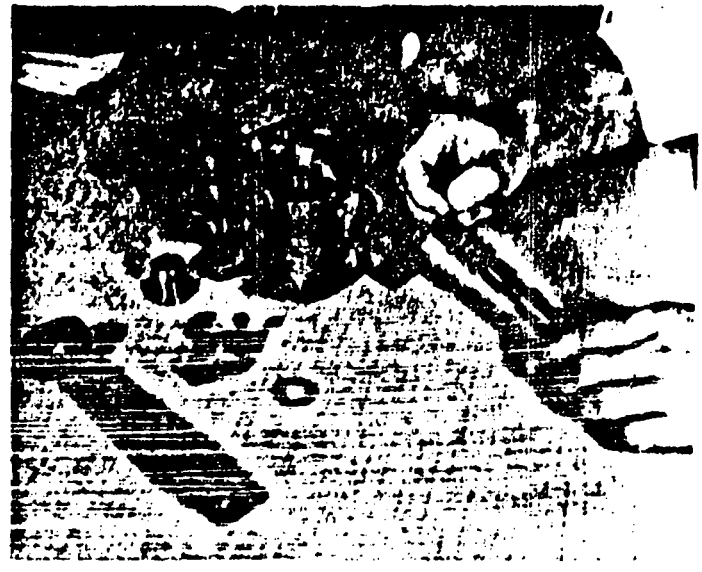
.070 cross section in size 8013 and larger.
.103 cross section in size 8117 and larger.
.139 cross section in size 8223 and larger.

Backup Washers

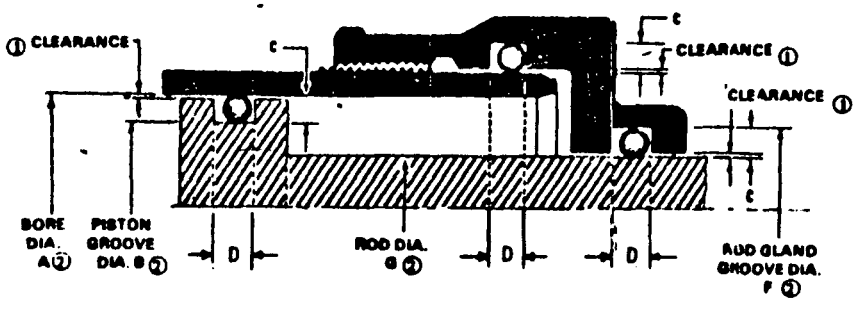
Generally, to prevent extrusion at pressures over 1500 PSI, backup washers should be used. Groove dimension should be increased to accommodate the thickness of the backup washers used.

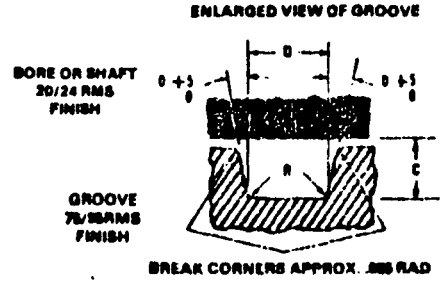
Type of Seal Dictates Groove Size

Please note that our Four Lobed Seal requires a specific groove dimension for optimum performance. This is because the lobed cross section seals effectively on the basis of its design . . . and does not need to "rock" back and forth in the groove as does an o-ring. Special charts for groove dimensions for the four lobed seals are on pages 15 to 20.



Groove Design For O-Rings Without Back-Up Washers





MR O-RING SIZE NO.		ACTUAL CROSS SECTION	MINIMUM C/S SQUEEZE Dynamic	MINIMUM C/S SQUEEZE Static	"C" MAXIMUM FOR MINIMUM C/S SQUEEZE Dynamic	"C" MAXIMUM FOR MINIMUM C/S SQUEEZE Static	"D" GROOVE AXIAL DIM[5] -.000 +.005	"R" RADIUS[5] ±.010
8004 to 8050	1/16	.070 ± .003	.010	.015	.055/.057	.050/.052	.094	.016
8102 to 8178	3/32	.103 ± .003	.010	.017	.088/.090	.081/.083	.141	.016
8201 to 8284	1/8	.139 ± .004	.012	.022	.121/.123	.111/.113	.188	.031
8309 to 8395	3/16	.210 ± .005	.017	.032	.186/.188	.171/.173	.281	.047
8425 to 8475	1/4	.275 ± .006	.029	.049	.238/.240	.218/.220	.375	.063

NOTES:
1. CLEARANCE. . .refer to separate chart on page 14 to determine proper diametrical clearance based on the pressures encountered. . . and hardness of the rubber compound from which the seal will be molded.
2. Piston groove diameter "B" equals "A" (at plus tolerance) minus 2 "C". Rod gland groove diameter "F" equals "G" (at minus tolerance) plus 2 "C".
3. Total indicator reading between groove and adjacent bearing surface.
4. All surfaces and corners must be without tool marks, nicks or scratches.
5. For backup washers, increase groove length "D" by thickness of washers used. Use minimum radius in groove.

C-6 DWG 4022-E Detail "C"

Groove Engineering Data

Seal Extrusion

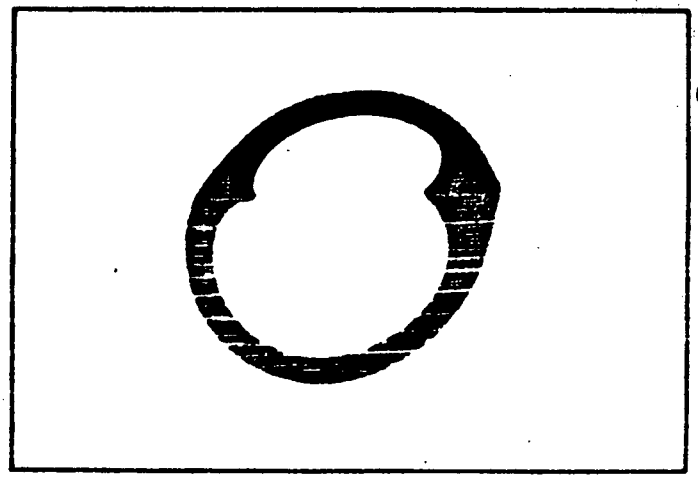
Pictured at the right is an example of an o-ring that failed because of extrusion from the groove. This is a common reason for seal failure in both dynamic and static applications. Extrusion is caused by constant higher pressures or pulsating pressure extremes. These pressures exceed the limits for hardness of the rubber compound being used for the seal and force the seal cross section into the gap between adjacent metal surfaces. As equipment cycles, the seal surface is cut. With continued operation, the cut opens up and finally tears away. The immediate result is leakage past the seal. If not corrected, the entire cross section will disintegrate and extrude from the groove.

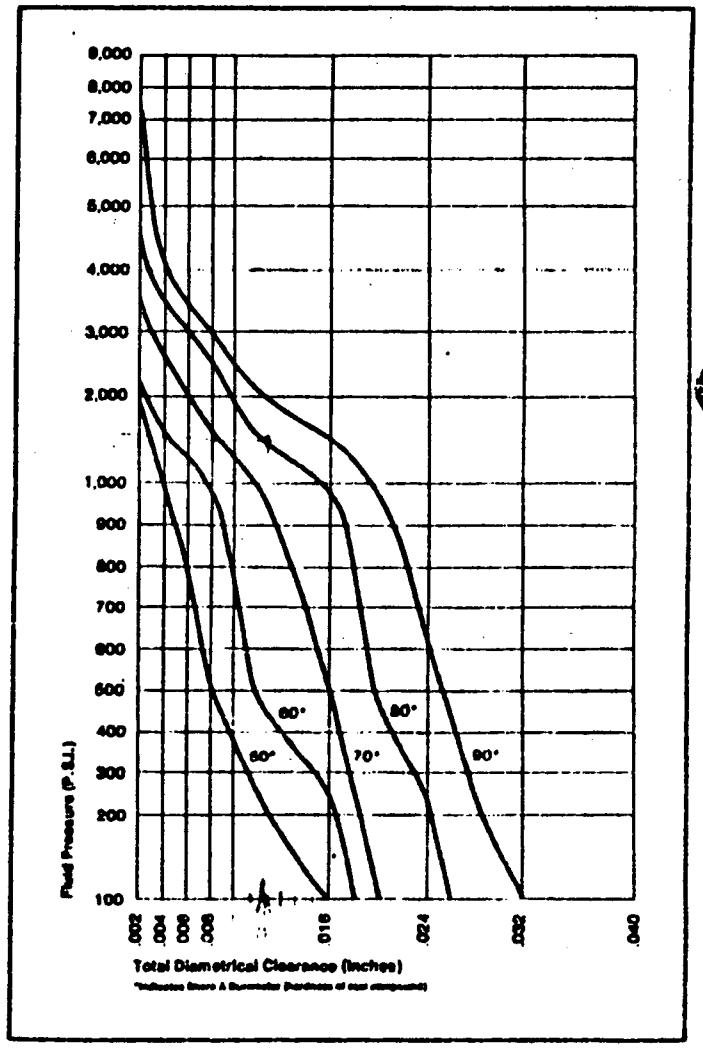
Careful attention to three critical areas will minimize the potential for seal extrusion failures. 1. The amount of clearance between adjacent surfaces should not exceed recommended limits. 2. The hardness of the rubber compound dictates the amount of clearance. 3. Finally, the pressures involved cannot exceed the working limits for the compound hardness being used.

The maximum gap clearances allowable are shown in the chart at the right. It combines the factors of rubber hardness with the ability of that hardness to withstand pressures. The result is a recommended radial clearance. Note that these recommendations are for seal cross sections of .139 inch and larger. Smaller cross sections require tighter tolerances. Also, the clearance shown is maximum. When possible, less clearance (a line above the curve on the chart) would be more desirable.

These clearances assume ideal operating conditions. For severe side load or eccentric movement, reduce the clearance.

Clearance shown is for a seal without back ups as well as for moderate temperatures. Higher temperatures with soft rubber compounds would require smaller clearances than those shown in the chart.





Basis For Curves

1. **No back-up (anti-extrusion) rings.**
2. **Total diametrical clearance must include cylinder expansion due to pressure.**
3. **Total diametrical clearance assumes that the piston and the bore are concentric (no side loading).**

NWMAR125922

Part No.*	Nominal Size		Actual Size		This Data Applies Only To QUAD-RING® Seals						
					Rod Size +/-.002	Bore +.000 -.002	Groove Rod +/-.001		Groove Piston +/-.001		Axial Groove Width +.005 -.000
	I.D.	C.S.	I.D. +/-	C.S. +/-			Static	Dynamic	Static	Dynamic	
388	19	3/16	18.953/.048	.210/.005	18.000	19.375	19.376	19.392	18.999	18.985	.240
389	20	3/16	19.953/.048	.210/.005	19.000	20.375	20.376	20.392	19.999	19.985	.240
390	21	3/16	20.953/.048	.210/.005	20.000	21.375	21.376	21.392	20.999	20.985	.240
391	22	3/16	21.953/.048	.210/.005	21.000	22.375	22.376	22.392	21.999	21.985	.240
392	23	3/16	22.940/.060	.210/.005	22.000	23.375	23.376	23.392	22.999	22.985	.240
393	24	3/16	23.940/.060	.210/.005	23.000	24.375	24.376	24.392	23.999	23.985	.240
394	25	3/16	24.940/.060	.210/.005	24.000	25.375	25.376	24.392	24.999	24.985	.240
395	26	3/16	25.940/.060	.210/.005	25.000	26.375	26.376	26.392	25.999	25.985	.240
425	4- 1/2	1/4	4.475/.015	.275/.006	4.500	5.000	4.988	5.012	4.512	4.490	.310
426	4- 5/8	1/4	4.600/.015	.275/.006	4.625	5.125	5.113	5.137	4.637	4.615	.310
427	4- 3/4	1/4	4.725/.015	.275/.006	4.750	5.250	5.238	5.262	4.762	4.740	.310
428	4- 7/8	1/4	4.850/.015	.275/.006	4.875	5.375	5.363	5.387	4.887	4.865	.310
429	5	1/4	4.975/.015	.275/.006	5.000	5.500	5.488	5.512	5.012	4.990	.310
430	5- 1/8	1/4	5.100/.023	.275/.006	5.125	5.625	5.613	5.637	5.137	5.115	.310
431	5- 1/4	1/4	5.225/.023	.275/.006	5.250	5.750	5.738	5.762	5.262	5.240	.310
432	5- 3/8	1/4	5.350/.023	.275/.006	5.375	5.875	5.863	5.887	5.387	5.365	.310
433	5- 1/2	1/4	5.475/.023	.275/.006	5.500	6.000	5.988	6.012	5.512	5.490	.310
434	5- 5/8	1/4	5.600/.023	.275/.006	5.625	6.125	6.113	6.137	5.637	5.615	.310
435	5- 3/4	1/4	5.725/.023	.275/.006	5.750	6.250	6.238	6.262	5.762	5.740	.310
436	5- 7/8	1/4	5.850/.023	.275/.006	5.875	6.375	6.363	6.387	5.887	5.865	.310
437	6	1/4	5.975/.023	.275/.006	6.000	6.500	6.488	6.512	6.012	5.990	.310
438	6- 1/4	1/4	6.225/.023	.275/.006	6.250	6.750	6.738	6.762	6.262	6.240	.310
439	6- 1/2	1/4	6.475/.023	.275/.006	6.500	7.000	6.988	7.012	6.512	6.490	.310
440	6- 3/4	1/4	6.725/.023	.275/.006	6.750	7.250	7.238	7.262	6.762	6.740	.310
441	7	1/4	6.975/.023	.275/.006	7.000	7.500	7.488	7.512	7.012	6.990	.310
442	7- 1/4	1/4	7.225/.030	.275/.006	7.250	7.750	7.738	7.762	7.262	7.240	.310
443	7- 1/2	1/4	7.475/.030	.275/.006	7.500	8.000	7.988	8.012	7.512	7.490	.310
444	7- 3/4	1/4	7.725/.030	.275/.006	7.750	8.250	8.238	8.262	7.762	7.740	310
445	8	1/4	7.975/.030	.275/.006	8.000	8.500	8.488	8.512	8.012	7.990	.310
446	8- 1/2	1/4	8.475/.030	.275/.006	8.500	9.000	8.988	9.012	8.512	8.490	.310
447	9	1/4	8.975/.030	.275/.006	9.000	9.500	9.488	9.512	9.012	8.990	.310
448	9- 1/2	1/4	9.475/.030	.275/.006	9.500	10.000	9.988	10.012	9.512	9.490	.310
449	10	1/4	9.975/.030	.275/.006	10.000	10.500	10.488	10.512	10.012	9.990	.310
450	10- 1/2	1/4	10.475/.030	.275/.006	10.500	11.000	10.988	11.012	10.512	10.490	.310
451	11	1/4	10.975/.030	.275/.006	11.000	11.500	11.488	11.512	11.012	10.990	.310
452	11- 1/2	1/4	11.475/.030	.275/.006	11.500	12.000	11.988	12.012	11.512	11.490	.310
453	12	1/4	11.975/.030	.275/.006	12.000	12.500	12.488	12.512	12.012	11.990	.310
454	12- 1/2	1/4	12.475/.030	.275/.006	12.500	13.000	12.988	13.012	12.512	12.490	.310
455	13	1/4	12.975/.030	.275/.006	13.000	13.500	13.488	13.512	13.012	12.990	.310
456	13- 1/2	1/4	13.475/.030	.275/.006	13.500	14.000	13.988	14.012	13.512	13.490	.310
457	14	1/4	13.975/.030	.275/.006	14.000	14.500	14.488	14.512	14.012	13.990	.310
458	14- 1/2	1/4	14.475/.030	.275/.006	14.500	15.000	14.988	15.012	14.512	14.490	.310
459	15	1/4	14.975/.030	.275/.006	15.000	15.500	15.488	15.512	15.012	14.990	.310
460	15- 1/2	1/4	15.475/.030	.275/.006	15.500	16.000	15.988	16.012	15.512	15.490	.310
461	16	1/4	15.955/.045	.275/.006	16.000	16.500	16.488	16.512	15.012	15.990	.310
462	16- 1/2	1/4	16.455/.045	.275/.006	16.500	17.000	16.988	16.012	16.512	16.490	.310
463	17	1/4	16.955/.045	.275/.006	17.000	17.500	17.488	17.512	16.012	16.990	.310
464	17- 1/2	1/4	17.455/.045	.275/.006	17.500	18.000	17.988	17.012	17.512	17.490	.310
465	18	1/4	17.955/.045	.275/.006	18.000	18.500	18.488	18.512	17.012	17.990	.310
466	18- 1/2	1/4	18.455/.045	.275/.006	18.500	19.000	18.988	18.012	18.512	18.490	.310
467	19	1/4	18.955/.045	.275/.006	19.000	19.500	19.488	19.512	18.012	18.990	.310
468	19- 1/2	1/4	19.455/.045	.275/.006	19.500	20.000	19.988	19.012	19.512	19.490	.310
469	20	1/4	19.955/.045	.275/.006	20.000	20.500	20.488	20.512	19.012	19.990	.310
470	21	1/4	20.955/.045	.275/.006	21.000	21.500	21.488	21.012	20.512	20.990	.310
471	22	1/4	21.955/.045	.275/.006	22.000	22.500	22.488	22.512	21.012	21.990	.310
472	23	1/4	22.940/.045	.275/.006	23.000	23.500	23.488	23.012	22.012	22.990	.310
473	24	1/4	23.940/.045	.275/.006	24.000	24.500	24.488	24.012	23.012	23.990	.310
474	25	1/4	24.940/.045	.275/.006	25.000	25.500	25.488	25.012	24.012	24.990	.310
475	26	1/4	25.940/.060	.275/.006	26.000	26.500	26.488	26.012	25.012	25.990	.310

2/ 8/18

NWMAR125923

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/31/89 JOB NO. 5500

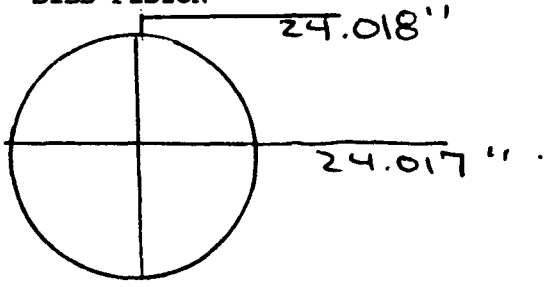
SPEC. ITEM NO. 130 PARA.

PROPELLER & TAILSHAFT REMOVAL
Spec. Item Title

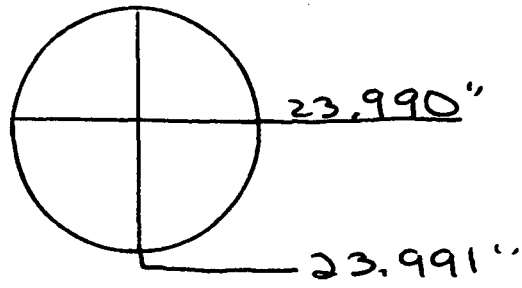
RESPONSE REQUIRED BY: WITHIN 48 HOURS

Please find listed below the MIC Readings of I.D. of coupling pistons and O.D. of shaft where piston fits.

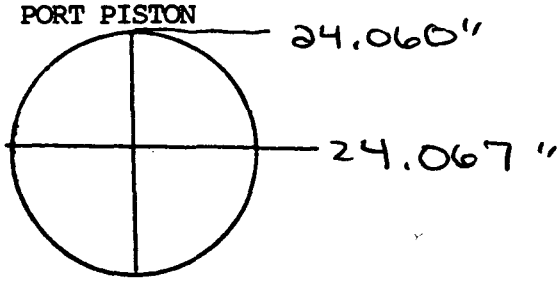
STBD PISTON



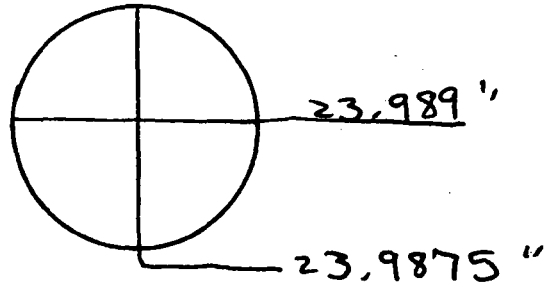
STBD SHAFT



PORT PISTON



PORT SHAFT



Recommend: Repair port piston.

Change Order Requested.

SHIP'S E.O. _____

D.C. O'DELL
Name of Company Representative

Machinist Foreman
Position/Title

Signature of QA Director

REMARKS:

THIS DOCUMENT RELATES TO WORK ITEM(S) WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE

Report No. 141

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

DOCUMENTATION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 6/1/89 JOB NO. 5500

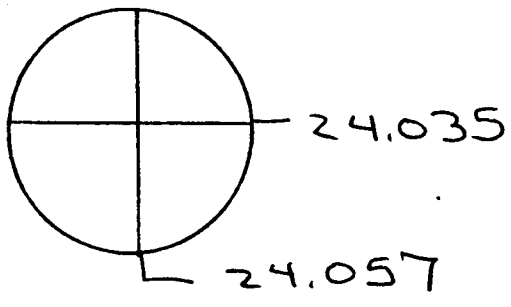
SPEC. ITEM NO. 130 PARA. 3.1.3

PROPELLER & TAILSHAFT REMOVAL
Spec. Item Title

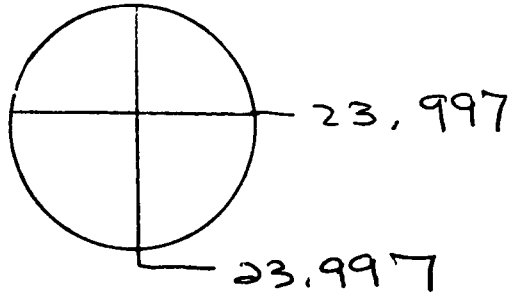
RESPONSE REQUIRED BY: WITHIN 48 HOURS

Please find listed below the MIC Readings on the center shaft coupling piston fit and center coupling piston.

CENTER COUPLING PISTON I.D.



CENTER SHAFT PISTON FIT O.D.



SHIP'S E.O. _____

REMARKS:

THIS DOCUMENT RELATES TO WORK ITEM(S) WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE CRITICAL PATH.

D.C. O'DELL
Name of Company Representative

Machinist Foreman
Position Title

Signature of QA Director

Report No. 149

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

DOCUMENTATION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 6/1/89 JOB NO. 5500

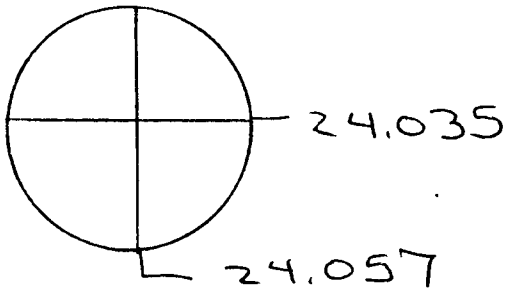
SPEC. ITEM NO. 130 PARA. 3.1.3

PROPELLER & TAILSHAFT REMOVAL
Spec. Item Title

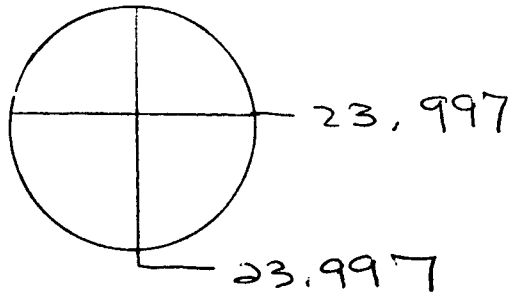
RESPONSE REQUIRED BY: WITHIN 48 HOURS

Please find listed below the MIC Readings on the center shaft coupling piston fit and center coupling piston.

CENTER COUPLING PISTON I.D.



CENTER SHAFT PISTON FIT O.D.



SHIP'S E.O. _____

REMARKS:

THIS DOCUMENT RELATES TO WORK ITEM(S) WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE CRITICAL PATH.

D.C. O'DELL
Name of Company Representative

Machinist Foreman
Position Title

Signature of QA Director

Report No. 149

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

CONDITION REPORT
(Condition, Closing, Service, Documentation ETC)

SHIP USCGC POLAR SEA

DATE 5/31/89 JOB NO. 5500

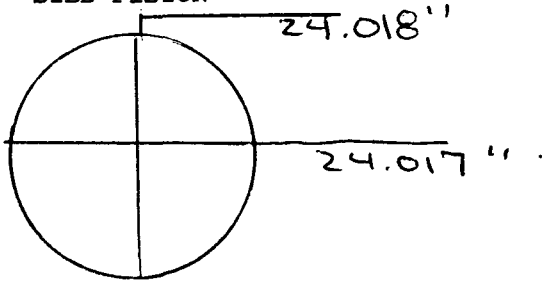
SPEC. ITEM NO. 130 PARA.

PROPELLER & TAILSHAFT REMOVAL
Spec. Item Title

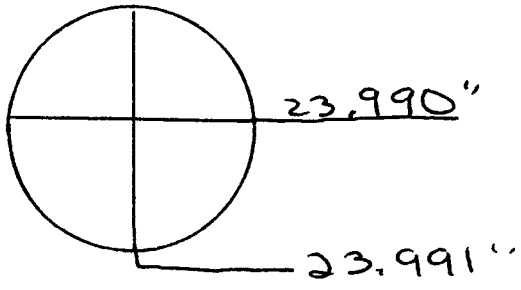
RESPONSE REQUIRED BY: WITHIN 48 HOURS

Please find listed below the MIC Readings of I.D. of coupling pistons and O.D. of shaft where piston fits.

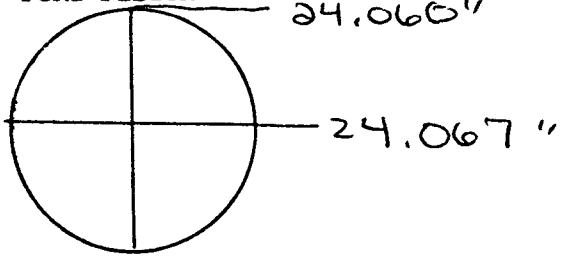
STBD PISTON



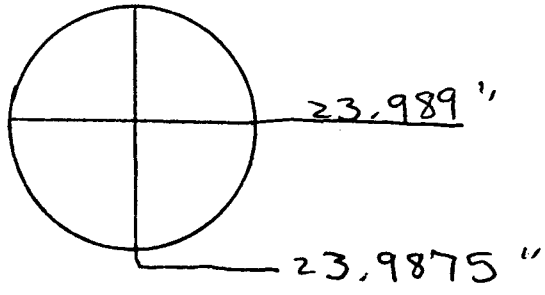
STBD SHAFT



PORT PISTON



PORT SHAFT



Recommend: Repair port piston.

Change Order Requested.

SHIP'S E.O. _____

D.C. O'DELL
Name of Company Representative

Machinist Foreman
Position/Title

L Taylor
Signature of QA Director

REMARKS:

THIS DOCUMENT RELATES TO WORK ITEMS WHICH LIE ON OR DIRECTLY SUPPORT THE CRITICAL PATH FOR COMPLETION OF THE OVERHAUL. AN EXPEDITED RESPONSE IS REQUIRED TO PRECLUDE IMPACT TO THE CRITICAL PATH.

Report No. 141

NORTHWEST MARINE IRON WORKS

MAILING ADDRESS P.O. BOX 3105
PORTLAND, OR 97208

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

PHONE (503) 285-7557

TWX: 910-464-6107 NORMARINE PTL

TELECOPIER COVER LETTER

TELEFAX NO. 415-437-3392 DATE 6-9-89

MESSAGE TO BE SENT TO (RECIPIENT'S NAME) MR. JOHN PORTER

AT (COMPANY) U.S.C.G. ALAMEDA, CA.

SENDER'S NAME TERRY RONNINGEN EXT 254

NUMBER OF PAGES (INCLUDING COVER SHEET) 3

REFERENCE (IF APPLICABLE) COAST GUARD REQUEST # R-053

****

IF YOU DID NOT RECEIVE ALL OF THE PAGES, PLEASE CALL DOCUMENT CONTROL DEPT. AT 503/285-7557, EXT 551.

WHEN SENDING TELECOPIED MESSAGES, PLEASE CALL 503/240-6600

****

3438

09-Jun-89

Commander (vpl)
Maintenance and Logistics Command Pacific
BLDG 50-7, Coast Guard Island
Alameda, CA 94501-5100

Attention: Mr. John Porter, Contracting Officer

SUBJECT: USCGC POLAR SEA (WAGB-11)
NMWI JOB #: 5500
RFP #: R-053
Work Item #: D-13

Dear Mr. Porter:

Northwest Marine Iron Work's price proposal for the performance of the subject Work Statement is $3,924.23 . *THIS QUOTE IS GOOD FOR FIVE DAYS ONLY.*

Labor:

Total AGR Hours	62 HOURS @ $22.00 =		$1,364.00
Material		$80.00	
Subcontracts		$1,740.00	
Subtotal Material & Subcontracts		1820.00	
General & Administrative 10.5% x Matl & Subs		$191.10	
Subtotal Material & Subcontracts		$2,011.10	2011.10
Subtotal Labor, Material & Subcontracts			3375.10
Port of Portland Fee 5.7% of Subtotal Costs			192.38
Port of Portland Services Fee			0.00
Profit			356.75
TOTAL PRICE			3924.23

Terry Ronningen, Estimator/Negotiator
NORTHWEST MARINE IRON WORKS

USCGC POLAR SEA (WAGB-11)

RFP NO. : R-053
ITEM NO.: D-13
DATE: 09-Jun-89

NMIW JOB NO.: 5500

LEAD CRAFT: 3
% OF PROGRESS 45.0%

OVERTIME PERCENTAGE: 0%

ESTIMATED PRODUCTION TIME BY TRADE

PARA.	TRAN	PT	M/M	RIG	S/F	P/F	ELE	Q.A.	FAC	TANK	TOOL/ WHS	S/W	C.O.	S/M	LAB	PLAN	LAG	TOTAL HOURS	MATERIAL	SUBS
1	2		44	16														62	80	1740
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
																		0		
TOTALS	2	0	44	16	0	0	0	0	0	0	0	0	0	0	0	0	0	62	80	1740
# CRAFTS	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3		

THIS QUOTE GOOD FOR FIVE DAYS ONLY, without case basis exception

REQUIRED ADDITIONAL WORK NOT DETAILED IN THE CHANGE ORDER

DESCRIPTION	
DIRECT LABOR PRODUCTION MODIFICATION ANALYSIS	0
Q.A. REQUIREMENTS	0
SUPERVISION	0
UPDATE SCHEDULES	0
TECH. DOCUMENTATION	0
GENERAL HOUSEKEEPING	0
FACILITIES	0

TOTAL ADDITIONAL WORK	0	0.00	0.00
TOTAL PRODUCTION WORK	62	80.00	1740.00
SUBTOTAL	62		
LOCAL DISRUPTION FACTOR 0.00	0		
TOTAL COST	62	80.00	1740.00

NWMAR125930

PRICE PROPOSAL SUMMARY SHEET

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

New Prin

SHIP: _____

JOB NO.: _____

PRICE PROPOSAL NO.: R-053

DATE: _____

NAVY ITEM NO.: _____

NMIW ITEM NO.: _____

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	120	22.00	2640
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			160
7.	SUBCONTRACTORS			3480
8.	~~[illegible]~~ Line 6 10.5% G+A			
9.	SUBTOTAL (FEE BEARING COST)			6280
10.	PORT OF PORTLAND USE FEE (LINE 9 x ___%)			+ 358
11.	SUBTOTAL			6638
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			6638
14.	FEE (LINE 13 x ___%)			+ 664
15.	FCOM			0
16.	TOTAL PRICE			7302.00

Debit

Sold →

Note - No G+A on settled price - we got more than we asked for

17. EXTENSION OF CONTRACT SCHEDULE _____ DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

_____
NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED _____

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

NEW CRAFT CODES

2 Filled

R-053

NORTHWEST MARINE IRON WORKS

COMPUTER CODES:
SUBNET _____ COST _____ NAVY ESTIMATE FOR: POLAR BEAR SEA BY: AL DATE: 6/8/99 PAGE: 1 OF: _____

WORK ITEM NO. D-13 (2 EA) WORK ITEM TITLE Port + ℄ muff Coupling Rep.

PARA	DESCRIPTION	01	02	03	04	05	06	07	08	09	11	12	15	17	PRIME HRS	PRIME MAT'L	SUB HRS	SUB MAT'L	SUB COST	POP	NOTES
1.	PERFORM A DIAMTRIC CHECK														-	-					Info
A.	SHAFT DIA. @ ROOT of FWD. O'RING GROOVE			10 8											8	10				2@ 4/5-	
B.	SHAFT DIA. ON EITHER SIDE of O'RING GROOVE			10 8											10 8	10				2@ 4/5-	
~~2.~~	NA														-	-					
3.	METAL SPRAY BUILD-UP of PISTON														-	-	45	100	1520	PRECISION EQUPT. 289-1145-GREG.	
4.	DETERMINE SQUEEZE on O'RING			10 8											10 8	-				2@ 4/5-	
5.	MACHINE COUPLING PISTON TO THAT DIA.														-	-					
6.	CAMBER PISTON O'RING TO 45°														-	-	COVERED BY		PRECISION		APX. 1 WK = SPA
7.	POLISH. 20/24 RMS + BREAK ALL CORNERS														-	-	"	"	"		
8.	REASSEMBLE MUFFS W/ USING A 70 DUROMETER														-	10				AIR-OIL RICH-234-0866	
	1/4" O-RING 8425 TO 8475 SIZE														-	-					
9	ENG. OFFICER SHALL BE PRESENT FOR FINAL ASSEMBLY of COUPLING			4 2											4 2	-				NOTIFICATION TIME	
~~10.~~	NA																				
	RIG + TRANSPORTATION + PROTECT.	2		10 8	16 12										28 22	30					
	ITEM/PAGE TOTALS	2 2		44 34	16 12										1.2 48	80 60	45	100	1740 1520		

NWMAR125932

WORK STATEMENT #: ITEM: NMIW J.O. #: 5500

TITLE: PORT AND CL MUFF CPL REPAIRS

PROPOSED PRICE: $3,924.23 SPEC #: LB-040-88

SETTLED PRICE: _____(%) DATE SETTLED: _____

SUBCONTRACTORS: (Settled Price) (%) SUBCONTRACTS (Proposed)

_____ _____ 1740.00

_____ _____ _____

MATERIAL: 80.00 O.T. AUTHORIZED: _____

LABOR HRS: _____ S.A. #: _____ OVERTIME PERCENTAGE 0%

NEGOTIATED BY: KINGREY/RONNINGEN & PORTER

COMMENTS:

CRAFT	1 TRNS	2 PT	3 M/M	4 RIG	5 S/F	6 P/F	7 ELE	8 Q.A.	9 FAC	10 TANK	11 WHS	12 S/W	14 C.O.	15 S/M	16 PLAN	17 LAB	18 LAG	19 DDK	20 SUPV	TOTAL HOURS
PROPOSED HOURS	2	0	44	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	62
SETTLED HOURS																				

MAT'L	SUBS
80	1740

A-47

PRICE PROPOSAL SUMMARY SHEET

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

SHIP: USCG POLARSEA

JOB NO.: 5500

PRICE PROPOSAL NO.: R-053

DATE: 6-9-89

NAVY ITEM NO.: D-13

NMIW ITEM NO.: 130K

	LABOR	HOURS	RATE	DOLLARS
1.	STRAIGHT TIME			
2.	OVERTIME			
3.	RESERVATION	120	22.00	2640
4.	TOTAL HOURS			
5.	TOTAL LABOR			
6.	MATERIALS			160
7.	SUBCONTRACTORS			3134
8.	~~DELAY/DISRUPTION/IMPACT COST~~ Li 6+7 x 10.5% G+A			346
9.	SUBTOTAL (FEE BEARING COST)			6280
10.	PORT OF PORTLAND USE FEE (LINE 9 x 5.7%)			+ 358
11.	SUBTOTAL			6638
12.	P.O.P. TARIFF			0
13.	SUBTOTAL			6638
14.	FEE (LINE 13 x 10 %)			+ 664
15.	FCOM			0
16.	TOTAL PRICE			7302.00
17.	EXTENSION OF CONTRACT SCHEDULE			0 DAYS

NOTE 1: This change order does not include impact costs for the unchanged work affected by this change. NMIW intends to analyze the cost and schedule impacts of this change on the unchanged work and schedule at the conclusion of the contract work. Therefore, this change order is accepted without prejudice to our right to claim additional costs and/or a schedule extension at that time.

NMIW REPRESENTATIVE

RESERVE HOURS NEGOTIATED 120

DISTRIBUTION:
ORIGINAL: SUPSHIP
CANARY: PROJECT MANAGER
BLUE: DATA PROCESSING

CHANGE ORDER BUDGET SUMMARY SHEET

A-47

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

SHIP: USCG POLAR SEA

JOB NO.: 5500

ITEM NO.: 130 K

DATE: 6-9-89

PRICE PROPOSAL NO.: R-053

TITLE: PORT AND CENTERLINE MUFF COUPLING REPAIR

CRAFT NO.	TOTAL BUDGET HOURS	STRAIGHT TIME	OVERTIME
01	4		
02			
03	60		
~~04~~ 4	16		
06A			
07			
08			
09			
10			
11			
14			
17			
18			
TOTAL	80		

SUBCONTRACTOR	SUB HOURS	SUB MATERIAL	SUB PRICE
PRECISION EQUIP.	8		1520 FIRM

CHANGE ORDER START DATE: 6-9-89

DURATION (IN DAYS): 4

MANAGEMENT RESERVE

HOURS: 40

DOLLARS: ~~[illegible]~~ 1614 (From SUB Column)

DISTRIBUTION:
ORIGINAL: PROJECT MANAGER
CANARY: SUBCONTRACTING MANAGER
BLUE: DATA PROCESSING

75

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	January 29, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-C
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 4

Contract Award Value	$5,498,890
Contract Amendments (thru PO0008)	188,246
	5,687,136
Physical Percent Complete	x 47%
	$2,672,954
Less Prior Payments	(1,932,800)
	$ 740,154
Less 5% Retention	(37,008)
Amount Due and Payable This Invoice	$ 703,146

Approved by: _____ 1/29/88
Signature Date

Lorin Gross
Contracting Officer

PARTIAL
O'ROURKE
NET

PAST DUE PAYMENTS SHALL [illegible] INTEREST AT THE HIGHEST LAWFUL RATE UNTIL RE[illegible] NOT TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR125936

32

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	January 22, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-B
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 3

Contract Award Value	$5,498,890
Contract Amendments (thru PO0007)	192,201
	5,691,091
Physical Percent Complete	x 35%
	$1,991,882
Less Prior Payments	(810,242)
	$1,181,640
Less 5% Retention	(59,082)
Amount Due and Payable This Invoice	$1,122,558

Approved by: _____ 1/22/88
Signature Date

Loren Gross
Contracting Officer

Partial
O'ROURKE
NET

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

20

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

INVOICE

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	January 15, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-A
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 2

Contract Award Value	$5,498,890
Contract Amendments (thru PO0003)	77,044
	5,575,934
Physical Percent Complete	x 15%
	$ 836,390
Less Prior Payments	(313,436)
	$ 522,954
Less 5% Retention	(26,148)
Amount Due and Payable This Invoice	$ 496,806

Approved by: _____ 1/15/88
Signature Date

Loren Gross
Contracting Officer

PARTIAL
O'Rourke
NET

PAST DUE PAYMENTS SHALL [illegible] INTEREST AT THE HIGHEST LAWFUL RATE UNTIL RE[illegible] NOT TO EXCEED 1[illegible]% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR125938

NORTHWEST MARINE IRON WORKS

8

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	January 8, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 1

Contract Award Value	$5,498,890
Contract Amendments	-0-
	5,498,890
Physical Percent Complete	x 6%
	$ 329,933
Less Prior Payments	-0-
	$ 329,933
Less 5% Retention	(16,497)
Amount Due and Payable This Invoice	$ 313,436

Approved by: _____ 1/8/88
Signature Date

Loren Gross
Contracting Officer

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

NWMAR125939

15

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	February 5, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO	N62383-88-C-0004
INVOICE NO.	3251-D
TERMS	Net

CUSTOMER CODE NUMBER N32209

Duns No 00-902-8565

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 5

Contract Award Value	$5,498,890
Contract Amendments (thru PO0012)	245,064
	5,743,954
Physical Percent Complete	x 62%
	$3,561,251
Less Prior Payments	(2,635,946)
	$ 925,305
Less 5% Retention	(46,265)
Amount Due and Payable This Invoice	$ 879,040

Approved by: _____ 2/5/88
Signature Date

Lorin Gross
Contracting Officer

Partial
O'Rourke
NET

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

NWMAR125940

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Lockwood Marine
P. O. Box 1064
Camas, WA 98607

Mr. Richard M. George

DATE Feb. 5, 1988
OUR JOB NO. 3251-D
CUSTOMER'S ORDER NO.
CONTRACT NO.
INVOICE NO. 3251-D
TERMS Net 30

CUSTOMER CODE NUMBER: 10717

Duns No. 00-902-8580

Charges for labor and material to dispose of 417 barrels of waste water.

TOTAL: $925.00

PAST DUE PAYMENTS SHALL BEA[illegible]EREST AT THE HIGHEST LAWFUL RATE UNTIL REPAI[illegible]T TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR125941

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Peninsula Truck Lines
1721 N. W. Northrup
Portland, OR

Attention: Linda Clark

DATE Feb. 9, 1988
OUR JOB NO. 3251
CUSTOMER'S ORDER NO.
CONTRACT NO.
INVOICE NO. 3251-E
TERMS Net

CUSTOMER CODE NUMBER: 20715

Duns No. 00-902-8580

Furnish labor, material, and equipment to press out a bent frame.

4 manhours at $45.00 per hour	$180.00
TOTAL AMOUNT DUE THIS INVOICE:	$180.00

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

NWMAR125942

44

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	February 16, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-E
TERMS	Net

CUSTOMER CODE NUMBER N32209

Duns No 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 6

Contract Award Value	$5,498,890
Contract Amendments (thru PO0016)	407,130
	5,906,020
Physical Percent Complete	x 75%
	$4,429,515
Less Prior Payments	(3,514,986)
	$ 914,529
Less 5% Retention	(45,726)
Amount Due and Payable This Invoice	$ 868,803

Approved by: _____ 2/16/88
Signature Date

Lorin Gross
Contracting Officer

PARTIAL
O'Rourke
NET

PAST DUE PAYMENTS SHALL BEA[illegible]TEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAI[illegible]T TO EXCEED 1½% PER MONTH.

CORRESPONDENC[illegible]DRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR125943

48

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	February 19, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-F
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 7

Contract Award Value	$5,498,890
Contract Amendments (thru PO0016)	407,130
	5,906,020
Physical Percent Complete	x 88.5%
	$5,226,828
Less Prior Payments	(4,383,789)
	$ 843,039
Less 5% Retention	(42,152)
Amount Due and Payable This Invoice	$ 800,887

Approved by: Signature 2/19/88 Date

Lorin Gross
Contracting Officer

PARTIAL
O/Rounds
NET

PAST DUE PAYMENTS SHALL BEA[illegible]EREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, [illegible]T TO EXCEED 1½% PER MONTH.

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR125944

NORTHWEST MARINE IRON WORKS

51

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	February 26, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-G
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 8

Contract Award Value	$5,498,890
Contract Amendments (thru PO0016)	490,799
	5,989,689
Physical Percent Complete	x 98%
	$5,869,895
Less Prior Payments	(5,184,676)
	$ 685,219
Less 5% Retention	(34,261)
Amount Due and Payable This Invoice	$ 650,958

Approved by: Signature 2/26/88 Date

Lorin Gross
Contracting Officer

Partial
O'Rourke
NET

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

NWMAR125945

20

NORTHWEST MARINE IRON WORKS

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	March 7, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-H
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
PROGRESS BILLING NO. 9

Contract Award Value	$5,498,890
Contract Amendments (thru PO0021)	639,576
	6,138,466
Physical Percent Complete	x 100%
	$6,138,466
Less Prior Payments	(5,835,634)
	$ 302,832
Less 5% Retention	(15,142)
Amount Due and Payable This Invoice	$ 287,690

PARTIAL
O'Rourke
NET

PAST DUE PAYMENTS SHALL BEAR [illegible]REST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, [illegible]TO EXCEED 1½% PER MONTH

CORRESPONDENCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 97208 PHONE (503) 285-7557

NWMAR125946

NORTHWEST MARINE IRON WORKS

24

SHIP REPAIRERS
GENERAL MACHINE WORK
ENGINEERING

MAIL PAYMENT TO:
P.O. BOX 4000-58
PORTLAND, OREGON 97208

INVOICE

Commander
Military Sealift Command, Pacific
Building 310-5, Code P-10-1
Naval Supply Center
Oakland, CA 94625-5010

DATE	April 11, 1988
OUR JOB NO.	3251
CUSTOMER'S ORDER NO.	MSCP 87-27
CONTRACT NO.	N62383-88-C-0004
INVOICE NO.	3251-I
TERMS	Net

CUSTOMER CODE NUMBER: N32209

Duns No. 00-902-8580

USNS OBSERVATION ISLAND (T-AGM 23)
FINAL BILLING

Contract Award Value	$5,498,890
Contract Amendments (thru PO0021)	639,576
	6,138,466
Physical Percent Complete	x 100%
	$6,138,466
Less Prior Payments	(6,123,324)
Amount Due and Payable This Invoice	$ 15,142

FINAL
O'Rourke
NGT

PAST DUE PAYMENTS SHALL BEAR INTEREST AT THE HIGHEST LAWFUL RATE UNTIL REPAID, NOT TO EXCEED 1½% PER MONTH.

CORRESPO[illegible]NCE ADDRESS P.O. BOX 3109 PORTLAND, OREGON 9[illegible] PHONE (503) 285-7557

NWMAR125947

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

DATE: February 25, 1988

TO: Production Department

FROM: Terry Kingrey

SUBJECT: USNS Observation Island - Job No. 3251

The USNS Observation Island Job No. #3251 will close effective 2400 hours, (12:00 P.M. Midnight) Sunday February 28, 1988.

The vessel will remain at Berth 304 until March 4th or 5th for crew training purposes.

I personally thank those who put forth the extra effort to complete this contract on time.

Thank You

Terry Kingrey
Project Manager

cc: Jim Coleman
Lynn Mills
Craft Supt.
Dept. Heads

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

December 7, 1987

Serial No. 3251-006

Port of Portland
P.O. Box 3529
Portland, Oregon 97208

Attention: Mr. Ray Eggersgluss
Finance Manager

Subject: USNS OBSERVATION ISLAND (T-AGM-23)
#N-62383-87-C-0004

Gentlemen:

The following information will provide equitable Use/Rehab and progress billing for the USNS OBSERVATION ISLAND.

The estimated total Use Fee is $260,000.00. Based on our contract schedule the vessel will be at Portland Ship Repair Yard for a period of eight weeks beginning January 6, 1988, resulting in weekly progress billings of $32,500.00.

Any adjustments, up or down, will be accounted for upon our final contract billing to the customer.

We trust this meets with your approval.

Very truly yours,

Hugh T. Kingrey

Hugh T. Kingrey
Project Manager

HTK/np

cc: Judy Greer, POP
Beverly Watson

CUSTOMER CODE
032209

Job Order
NORTHWEST MARINE IRON WORKS

JOB NO. 3251

BILL TO: Military Sealift Command
Naval Supply Center Blg 310-5
Oakland, Ca 94625

Estimated Completion Date: 3/15/87

Customer's No.

☐ Fixed Price ☒ Time Material

☐ Parts ☐ Acknowledge

Terms: F.O.B.

Ship To:

Quoted Price

Supt. or Foreman in Charge

Line	Part No.	Qty.	Description of Work	Symbol	M.I./RFP
			USNS OBSERVATION ISLAND Drydock and Repairs. Start: 11/30/87 Complete: 3/15/88 Location: DD #3 / B-304 Project Manger: Terry Kingrey Ship Supt: Bob Kunkel		

	Est. Hrs.	Actual Hrs. Strt.	Actual Hrs. O.T.
30. Mach.			
31. Truck			
32. Carp.			
33. Labor.			
34. Paint.			
35. BM.			
38. Assy.			
40. Engr.			
Patt.			
TOTAL			

Date of Order

CP 3/4/88
Comp. Date By

☐ ☐
☐ ☐ PATT.
☐ ☐ OTHER

COST DATA

LABOR S.T. HRS.
LABOR O.T. HRS.
P.O.'s
STORES
MILEAGE
EXPENSE
OVERHEAD
TOTAL

BILLING DATA

HRS. @
O.T. HRS. @
MATERIALS
%
EXPENSE
TOTAL

NWMAR125950

CODE
032209

NORTHWEST MARINE IRON WORKS

JOB NO. 3251

Estimated Completion Date 3/15/87

Customer's No.

☐ Fixed Price ☒ Time Material

☐ Parts ☐ Acknowledge

Quoted Price

Supt. or Foreman in Charge

Sold To: Military Sealift Command
Naval Supply Center Blg 310-5
Oakland, Ca 94625

Order No. P.O.#

Ship To

Line	Part No.	Qty.	Description of Work	Symbol	M.I./E.T.
			USNS OBSERVATION ISLAND Drydock and Repairs. Start: 11/30/87 Complete: 3/15/87 Location: DD #3 / B-304 Project Manger: Terry Kingrey Ship Supt: Bob Kunkel		

	Est. Hrs.	Actual Hrs. Strt.	Actual Hrs. O.T.
30. Mach.			
31. Truck			
32. Carp.			
33. Labor.			
34. Paint.			
35. EM.			
36. Assy.			
40. Engr.			
Patt.			
TOTAL			

Date of Order Comp. Date By

☐ ☐ PATT. ☐ OTHER

COST DATA

LABOR S.T. HRS.
LABOR O.T. HRS.
P.O.'s
STORES
MILEAGE
EXPENSE
OVERHEAD
TOTAL

BILLING DATA

HRS. @
O.T. HRS. @
MATERIALS
%
EXPENSE
TOTAL

NWMAR125951

PO140. 2. BEV

PURCHASE ORDER STATUS
FOR JOB 3251

MON, 02 MAY 1988 09:54

STATUS: OPEN SORTED BY VENDOR CODE

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
51720-	10	1/06/88	>>> GFM <<<	GFM	0.00	192	0.00	116	P	0.00		0.00	
51720-01	10	1/06/88	>>> GFM <<<	GFM	0.00	25	0.00	25	F	0.00		0.00	
51720-02	10	1/28/88	>>> GFM <<<	GFM	0.00	85	0.00	0		0.00		0.00	
53537-	10	2/09/88	A.C. & S. INC.	PIPE COVERING	976.32	2,313	976.32	2,295	P	792.00	F	0.00	
53944-	10	2/10/88	A.C. & S. INC.	PIPE COVERING	502.44	2,246	1,040.64	2,246	F	845.64	F	0.00	
54163-01	10	2/18/88	AIMSCO	CANCELLATION	193.20-	25-	0.00	0	F	0.00	F	0.00	
52894-	10	1/14/88	AIR PRODUCTS & CHE	NITROGEN	280.00	4	280.00	0		171.93	F	0.00	
53237-	10	1/27/88	AIR PRODUCTS & CHE	CYLINDERS	378.75	3	378.75	3	F	0.00	F	0.00	
52909-	18	1/15/88	AMERICAN METAL CLE	PICKLE PIPE	1,700.00	17	1,700.00	0		138.54	F	0.00	
53789-	10	2/10/88	ARGO INTERNATIONAL	SEAL	1,590.00	4	1,590.00	0		0.00	—	0.00	
53120-	10	1/25/88	E. J. BARTELLS CO.	INSULATION	5,155.00	1	5,272.79	1	F	5,272.79	F	0.00	N
53138-	10	2/01/88	E. J. BARTELLS CO.	INSULATION	1,956.24	193	1,956.24	0		0.00	—	0.00	
53306-	10	1/28/88	E. J. BARTELLS CO.	INSULATION	5,135.00	3,001	5,135.00	3,001	F	0.00	—	0.00	
54891-	18	3/05/88	BERGMAN PHOTOGRAPH	PHOTO SERVICES	1,267.00	1	1,267.00	0		0.00	—	0.00	
54015-	18	2/23/88	BROWN BOVERI ELECT	TECH SERVICES	15,000.00	1	15,000.00	0		0.00	10,317.23	0.00	
53404-	10	2/10/88	BYE ENGRAVING, INC	NAMEPLATES	672.00	156	672.00	155	P	648.00	F	0.00	
54386-	10	2/23/88	BYE ENGRAVING, INC	LABEL PLATE	44.00	11	44.00	0	Pettucash	0.00	F	0.00	
54395-	10	2/26/88	BYE ENGRAVING, INC	LABEL PLATE	8.00	2	8.00	0	Pettu cash	0.00	F	0.00	
53520-	10	1/29/88	COLUMBIA BANDING	PIPE COVERING	2,198.14	4,886	2,000.02	4,886	F	1,700.32	P	0.00	
51909-	15	12/21/87	COMPUTER RENT	RENTAL	562.00	4	913.00	0		863.00	F	0.00	
54299-	10	2/17/88	CONSOLIDATED SUPPL	WATER CLOSETS	270.00	4	270.00	2	P	135.00	F	0.00	
54035-	10	2/19/88	CREATIVE COMPUTER	SURGE PROTECTOR	49.95	1	49.95	0	PETTY CASH	0.00	F	0.00	
53323-	15	1/27/88	CULLIGAN WATER SUP	SERVICE	200.00	1	450.00	0		450.00	F	0.00	
51910-	15	12/21/87	DATAGRAPHICS NORTH	RENTAL	500.00	1	500.00	0		150.00	F	0.00	
52628-	10	1/27/88	SHOP SERVICES INC.	VALVE REPAIR	1,940.00	6	2,360.00	0		1,020.00	F	0.00	
51604-	18	12/29/87	ENGINEERING VISION	DESIGN SERVICES	119,900.00	45	119,900.00	0	32670.15	85,308.85		0.00	
53863-	10	2/19/88	EQUIPTO-ELECT CORP	WORK STATION	2,631.40	4	2,631.40	4	F	2,446.23	F	0.00	
52936-	10	1/15/88	EXPRESS TEMPORARY	SERVICE	7,500.00	1	7,500.00	0		7,339.57	F	0.00	
52473-	10	1/07/88	FAR WEST OFFICE SY	SUPPLIES	1,225.83	173	1,225.83	148	P	1,211.81	F	0.00	
51894-02	18	2/25/88	FRASER BOILER & DI	BOILER REPAIR	979.00-	1-	0.00	0	F	0.00	F	0.00	
52433-	18	2/28/88	GALVANIZERS, INC.	GALVANIZE PIPE	350.00	7	1,243.75	0		1,243.75	F	0.00	
53064-01	10	1/26/88	GASKET TECHNOLOGY	GASKET MATERIAL	410.40	360	410.40	360	F	0.00	F	0.00	
54144-	10	2/18/88	GENERAL TOOL & SUP	TOOLS	4,892.65	28	5,282.05	29	F	4,516.75	F	0.00	
54288-	10	10/31/88	GIMPEL CORP	PARTS	19,500.00	8	19,500.00	0		6,500.00	13,000.00	0.00	
51962-	10	12/23/87	HARDWARE SPECIALTY	ELEC SYMBOL ITEM	669.50	16	669.50	16	F	649.50	F	0.00	
51963-	10	12/23/87	HARDWARE SPECIALTY	TYPE "G" PHONES	295.00	2	295.00	2	F	285.00	F	0.00	
52090-	10	1/06/88	HARDWARE SPECIALTY	ELECT.	14,451.75	124	14,613.78	124	P	14,613.78	A	0.00	N
52773-01	10	1/29/88	HARDWARE SPECIALTY	CABLE	370.50	450	370.50	0		0.00	F	0.00	
53416-	10	2/09/88	HARDWARE SPECIALTY	LIGHT FXT	341.00	5	345.19	5	F	250.19	F	0.00	
53983-	10	2/15/88	HARDWARE SPECIALTY	LIGHTING	4,131.94	39	4,674.45	32	P	3,178.45	F	0.00	
53983-01	10	2/18/88	HARDWARE SPECIALTY	LIGHTING	1,496.00-	8-	0.00	0	F	0.00	F	0.00	
52658-	15	1/12/88	HIGH REACH, INC.	RENTAL	6,944.00	2	9,761.29	0		8,721.13	F	0.00	
53547-	15	1/18/88	HIGH REACH, INC.	RENTAL	1,300.00	1	1,300.00	0		0.00	F	0.00	
52400-	18	1/07/87	HY-TECH	SERVICES	69,356.00	2	72,631.20	0		68,523.73	F	0.00	
53329-	10	1/26/88	IRC ALUMINUM & STA	S.S. PIPE	235.80	20	235.80	21	F	0.00	247.16 F	0.00	
54353-	10	2/22/88	IN-MAR SALES, INC.	GAUGES	2,924.70	36	3,138.65	35	P	3,098.65	F	0.00	
51330-	18	12/22/87	INFRARED NORTHWEST	TECH. SVCS.	1,000.00	1	1,000.00	0	1100.00	0.00	F	0.00	
51972-	10	12/18/87	INSTITUTE ELEC. &	IEEE MANUALS	63.00	3	59.00	3	F	54.00	F	0.00	
53597-	10	2/01/88	INTERMOUNTAIN INDU	HOSE	123.50	130	123.50	0		0.00	F	0.00	
54842-	10	3/03/88	J & F INDUSTRIES,	DISHWASHER	4,495.00	2	4,495.00	2	F	0.00	4495.00	0.00	
52569-	10	2/08/88	JUNIPER INDUSTRIES	TERMINAL & COVER	3,316.00	55	3,316.00	55	F	3,137.01	F	0.00	
53494-	10	2/08/88	JUNIPER INDUSTRIES	BELLMOUTH	55.30	2	55.30	2	F	47.21	F	0.00	
54173-	10	2/15/88	JUNIPER INDUSTRIES	DEFF. TERMINAL	114.00	2	114.00	2	F	107.50	F	0.00	
51801-	18	12/11/87	MQS INSPECTION, IN	SERVICES	1,050.00	1	1,050.00	0		0.00	F	0.00	

NWMAR125952

PO140. 2. BEV

PURCHASE ORDER STATUS
FOR JOB 3251

MON, 02 MAY 1988 09:54

STATUS: OPEN SORTED BY VENDOR CODE

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
52559-	10	2/12/88	MARLO COIL	HEATER	201.00	2	201.00	2	F	181.00	F	0.00	
52132-	10	1/29/88	MARINE LAND SERVIC	POWER PANEL	6,566.26	10	6,566.26	10	F	2,375.26		0.00	
52451-	10	1/15/88	MARINE LAND SERVIC	SONALERT	76.96	4	76.96	4	F	66.96	F	0.00	
52263-01	10	1/06/88	MARINE PROPULSION	CANCEL P.O.	30,000.00-	43-	0.00	0	F	0.00	F	0.00	
52666-	10	1/18/88	MARSTO MACHINE CO.	DAMPER HARDWARE	215.80	26	215.80	26	F	206.80	F	0.00	
53842-	10	2/13/88	MCINTYRE ENGR CO I	HEATER	296.00	3	296.00	3	F	257.90	F	0.00	
51771-	10	1/01/88	MC MASTER CARR SUP	ALUM. GRATING	1,526.40	30	610.50	90	P	610.50	F	0.00	N
52392-	10	1/10/88	MC MASTER CARR SUP	HOIST	1,338.40	1	133.05	1	F	133.05	A	0.00	N
54001-	18	2/11/88	MONTGOMERY ELEVATO	DOOR	1,500.00	1	1,500.00	0	Duplicate	0.00	F	0.00	
53349-	10	2/08/88	NAVY CASH	LOUDSPEAKER	2,440.00	4	2,440.00	0	charge	0.00	F	0.00	
53349-01	10	2/19/88	NAVY CASH	AMEND. — cancellation	2,440.00	4	2,440.00	0	Cancellation	0.00	F	0.00	
53140-	10	1/20/88	NORTHWEST MARINE I	SHAFT WORK	180.00	1	180.00	NANCY 0	7445	0.00	70.00	0.00	
53147-	10	1/20/88	NORTHWEST MARINE I	MACHINING	2,270.00	3	2,270.00	NANCY 0	7442	0.00	2270.00	0.00	
54142-	10	2/11/88	NORTHWEST TESTING	HYD. FLUID	630.00	6	630.00	Duplicate of	P.O. 54142	0.00	F	0.00	
51091-	10	12/08/87	OREGON TIME RECORD	ELEC "RECD" STMP	403.50	3	446.00	3	F	403.50	F	0.00	
52732-	10	1/22/88	PACIFIC ELECTRIC	MOTORS	700.00	2	800.00	0		480.00	F	0.00	
53026-	10	1/19/88	PACIFIC MACHINERY	KEYSTOCK	12.54	1	12.54	Petty Cash		0.00	F	0.00	
52340-	15	1/04/88	PACIFIC OFFICE AUT	RENTAL	540.00	2	902.90	0		862.90	F	0.00	
52340-01	15	4/18/88	PACIFIC OFFICE AUT	RENTAL	0.00	1	0.00	0		0.00	F	0.00	
54306-	10	2/18/88	PARAMOUNT SUPPLY C	VALVE	3,165.80	0	3,165.80	0	F	316.58	F F	0.00	N
52098-	10	1/06/88	PLATT ELECTRIC SUP	ELECT. MISC.	1,298.56	63	1,421.21	63	F	1,315.52	F	0.00	
52674-	10	1/18/88	J. CARL POPE	SPIRAL PIPE	2,046.92	378	2,070.09	378	F	2,011.86	F	0.00	
51732-	19	1/10/88	PORT OF PORTLAND	BERTHAGE	115,500.00	1	126,367.93	0		126,367.93	F	0.00	
54272-	20	2/11/88	PORT OF PORTLAND	USE FEE	315,000.00	1	315,000.00	0		241,246.00	F	0.00	
55865-	15	3/22/88	PORT OF PORTLAND	RENTAL	15,719.86	2	28,363.56	0		24,951.06	F	0.00	
51908-	15	12/21/87	PLTD. TYPEWRITER &	RENTAL	410.00	2	475.00	0		465.00	F	0.00	
53669-	14	2/05/88	POWER RENTS	HTR RENTAL	1,260.00	9	1,260.00	0		160.00	F	0.00	
51799-01	10	1/14/88	PRECISION EQUIPMEN	CANCEL P.O.	1,770.00-	1-	0.00	0	F	0.00	F	0.00	
52804-	10	1/20/88	PRIESTLEY OIL & CH	DIESEL	357.20	8	357.20	8	F	277.20	F	0.00	
52974-	10	1/20/88	PRIESTLEY OIL & CH	OIL	345.60	111	345.60	111	F	365.60 325.60	F	0.00	
53600-	10	2/05/88	PRIESTLEY OIL & CH	TURBINE OIL	403.00	112	403.00	112	F	363.00	F	0.00	
52511-	10	1/11/88	PRODUCTION SUPPLY	ALUM SHAPER	1,712.74	339	1,531.89	339	F	1,393.17	F	0.00	
54396-	10	2/24/88	REFRIGER. HARDWARD	REF. DOOR HANDLE	25.58	2	25.58	Petty Cash 2	F	0.00	F	0.00	
53481-	10	1/29/88	ROY MFG. COMPANY	PERF. ALUM	1,040.00	10	1,040.00	10	F	910.00	P F	0.00	
53859-	10	2/08/88	ROY MFG. COMPANY	PERF. ALUM	416.00	4	416.00	5	F	390.00	P F	0.00	
53317-	10	2/02/88	JOSEPH T. RYERSON	GRP HANDRAIL	1,403.80	321	1,403.80	321	F	1,288.98	P F	0.00	
51667-01	18	1/06/88	SANDERSON SAFETY S	SERVICE	1,000.00	1	1,000.00	original 0	51667	0.00	F	0.00	
53747-	18	2/03/88	SANDERSON SAFETY S	SERVICE	400.00	1	400.00	0		200.00	F	0.00	
52389-	15	1/11/88	SCHULTZ CLEARWATER	RENTAL	2,400.00	4	2,400.00	0		632.75	F	0.00	
51912-	10	1/22/88	STUD WELDING SUPPL	STUDS	1,131.13	9,561	1,364.07	9,731	F	1,035.52	F	0.00	
54397-	15	1/18/88	STUD WELDING SUPPL	RENTAL	1,200.00	1	1,200.00	0		0.00	600.00	0.00	
52650-	10	1/14/88	TOTAL OFFICE PROD.	SUPPLIES	614.59	23	608.83	1	P	479.83	F	0.00	
52080-01	10	1/15/88	USG INTERIORS	AMENDMENT	384.00-	7-	780.00	0		0.00	F	0.00	
52788-01	10	1/26/88	USG INTERIORS	JOINER PANELS	400.00	0	400.00	0		400.00	F	0.00	
53401-01	10	3/01/88	UNIDYNAMICS/PHOENI	TECH SVCS	4,500.00-	1-	4,500.00	0		4,500.00	F	0.00	
53458-	18	2/01/88	UNIVERSAL HYDRAULI	SERVICES	31,000.00	1	31,000.00	0		0.00	F	0.00	
52458-	10	2/05/88	VIDEO CONNECTION	GE TV SETS	2,600.00	5	2,600.00	5	F	1,079.00	F	0.00	N
52458-01	10	2/01/88	VIDEO CONNECTION	TV SETS	1,521.00-	9-	0.00	0	F	0.00	F	0.00	
51728-	10	1/08/88	WESTERN IMAGE SYST	BLUEPRINT SERVIC	3,000.00	1	3,000.00	0		182.40	F	0.00	
54439-	18	2/24/88	WILLAMETTE TUG & B	TUG SERVICE	5,000.00	1	5,000.00	0		2,592.00	F	0.00	
53843-	28	2/12/88	YELLOW FORWARDING	SHIPPING	65.00	1	65.00	0		50.14	F	0.00	
56414-	28	4/04/88	YELLOW FORWARDING	SHIPPING	80.00	1	80.00	0		86.87 0.00	F	0.00	
51555-	50	12/07/87	TRAVEL & ENTERTAIN	TRAVEL & EXPENSE	3,000.00	1	3,000.00	0		1,758.60	F	0.00	
51552-	60	12/07/87	PETTY CASH	PETTY CASH	3,000.00	1	4,181.04	0		4,181.04	F	0.00	

NWMAR125953

PO140.2.BEV

PURCHASE ORDER STATUS
FOR JOB 3251

MON, 02 MAY 1988 09:54
PAGE 3

STATUS: OPEN SORTED BY VENDOR CODE

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
51554-	99	12/07/87	MISC. - NON P.O.	MISC. NON P.O	3,000.00	1	3,847.63	0		3,847.63	F	0.00	
53609-	00	2/01/88	XXXXXXXXXXXXXXXXXX *	PO LOG *	0.00	0	0.00	0		0.00		0.00	
110	OPEN	P.O.'S	STATUS OPEN	TOTALS:	806,521.55	25,653	886,599.54	24,795		651,719.01		0.00	

NWMAR125954

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
52587-	10	1/08/88	A.G.G. ENTERPRISES	SERVICE	250.00	1	5,836.72	0		5,836.72	A	0.00	
53482-	10	1/28/88	AL COMPRESSED GASE	COMPRESSED AIR	491.80	4	1,271.80	4	F	1,271.80	A	0.00	
53871-	10	2/10/88	AL COMPRESSED GASE	COMPRESSED AIR	368.85	3	368.85	0		368.85	F	0.00	
54249-	10	2/18/88	AL COMPRESSED GASE	COMPRESSED AIR	368.85	3	368.85	3	F	368.85	F	0.00	
52611-	10	2/19/88	ADELL CORP.	DESSICANT CONT.	8,580.00	165	8,855.14	165	F	8,855.14	A	0.00	
52291-	10	12/23/87	ADVANCED FINISHING	PARTS	309.30	22	309.30	22	F	309.30	F	0.00	
52298-	10	12/29/87	ADVANCED FINISHING	ENEMAL	272.80	10	247.00	0		247.00	F	0.00	
52460-	10	1/04/88	ADVANCED FINISHING	ENAMEL	215.30	8	215.30	9	F	215.30	F	0.00	
54112-	10	2/11/88	ADVANCED FINISHING	ENAMEL	118.35	4	118.35	4	F	118.35	F	0.00	
54419-	10	2/19/88	ADVANCED FINISHING	PAINT	73.00	3	73.00	3	F	73.00	F	0.00	
54163-	10	2/12/88	AIMSCO	SSH LATCHES	193.20	25	0.00	0		0.00	F	0.00	
52946-	10	2/05/88	AIR FILTER SALES &	SUPPLY DIFFUSER	1,007.00	28	1,045.00	28	F	1,045.00	F	0.00	
52499-	10	1/05/88	AIR PRODUCTS & CHE	LIQ. NITROGEN	70.00	1	41.48	1	F	41.48	F	0.00	
53237-01	10	4/15/88	AIR PRODUCTS & CHE	CANCELLATION	378.75-	3-	0.00	0	F	0.00	F	0.00	
52144-	10	1/12/88	ALASKAN COPPER & B	COPPER STRIP	46.20	1	46.20	1	F	46.20	F	0.00	
52245-	10	1/06/88	ALASKAN COPPER & B	COPPER PIPE	204.60	110	204.60	110	F	204.60	F	0.00	
52256-	10	1/06/88	ALASKAN COPPER & B	COPPER PIPE	635.90	301	633.20	300	P	633.20	F	0.00	
52361-	10	1/06/88	ALASKAN COPPER & B	COPPER PIPE	1,684.40	900	1,684.40	900	F	1,684.40	F	0.00	
52420-	10	1/06/88	ALASKAN COPPER & B	COPPER PIPE	1,296.00	440	1,296.00	440	F	1,296.00	F	0.00	
52576-	10	1/12/88	ALASKAN COPPER & B	STAINLESS STEEL	833.20	8	833.35	8	F	833.35	F	0.00	
52901-	10	1/15/88	ALASKAN COPPER & B	S.S. FLAT BAR	359.60	248	356.70	246	P	356.70	F	0.00	
53076-	10	1/22/88	ALASKAN COPPER & B	S.S. FITTINGS	107.36	41	112.28	41	F	112.28	F	0.00	
53148-	10	1/22/88	ALASKAN COPPER & B	S.S SQ. BAR	332.35	1	421.42	1	F	421.42	F	0.00	
53579-	10	2/02/88	ALASKAN COPPER & B	COPPER PIPE	424.60	200	415.25	196	P	415.25	F	0.00	
53884-	10	2/08/88	ALASKAN COPPER & B	S.S. PIPE	227.20	40	227.20	40	F	227.20	F	0.00	
54082-	10	2/09/88	ALASKAN COPPER & B	COPPER PIPE	194.40	120	194.40	120	F	194.40	F	0.00	
54187-	10	2/12/88	ALASKAN COPPER & B	COPPER PIPE	324.00	120	324.00	120	F	324.00	F	0.00	
54243-	10	2/17/88	ALASKAN COPPER & B	ST. STL.	248.16	1	248.16	1	F	248.16	F	0.00	
53714-	18	2/16/88	ALLIED SAFE & VAUL	REPAIR-SAFE	278.10	1	281.24	0		281.24	F	0.00	
54060-	10	2/22/88	ALLIED SAFE & VAUL	LOCK	275.00	1	275.00	1	F	275.00	F	0.00	
54389-	18	2/22/88	ALLIED SAFE & VAUL	SVC SAFE REPAIR	789.77	5	735.06	0		735.06	F	0.00	
53048-	10	1/22/88	ALRITE INSULATION	TUFF WELD	90.60	17	83.08	17	F	83.08	F	0.00	
51689-	10	12/28/87	AMERICAN BUREAU OF	ABS PUBLICATION	55.00	1	55.00	0		55.00	F	0.00	
53595-	10	2/04/88	AMERICAN-PACIFIC C	ACID	8,170.00	48	8,264.50	48	F	8,264.50	F	0.00	
52175-	10	12/22/87	AMERICAN STEEL	STL SHAPES/PLT	1,866.57	5,029	1,864.15	5,021	P	1,864.15	F	0.00	
52327-	10	12/28/87	AMERICAN STEEL	STEEL	136.50	5	136.50	5	F	136.50	F	0.00	
52483-	10	1/08/88	AMERICAN STEEL	STEEL SHAPES/PL	1,937.84	6,998	1,935.56	6,990	P	1,935.56	F	0.00	
52517-	10	1/29/88	AMERICAN STEEL	SHEATING	1,395.69	31	1,394.13	31	F	1,394.13	F	0.00	
52578-	10	1/11/88	AMERICAN STEEL	SHEATING	584.40	15	585.80	15	F	585.80	F	0.00	
52952-	10	1/21/88	AMERICAN STEEL	GALV. SHT	400.37	1,062	400.91	1,062	F	400.91	F	0.00	
52996-	10	1/19/88	AMERICAN STEEL	STEEL SHAPES	1,528.80	680	1,528.33	680	F	1,528.33	F	0.00	
53021-	10	1/19/88	AMERICAN STEEL	11 GA.GALV. SHTS	519.72	6	519.54	6	F	519.54	F	0.00	
53220-	10	1/25/88	AMERICAN STEEL	EXP MTL, ANGLE	159.76	124	151.62	124	F	151.62	F	0.00	
53225-	10	1/25/88	AMERICAN STEEL	GALV. SHEETS	1,143.78	26	1,143.67	26	F	1,143.67	F	0.00	
53233-	10	1/26/88	AMERICAN STEEL	GALV. SHEETS	764.33	26	764.20	26	F	764.20	F	0.00	
53479-	10	1/28/88	AMERICAN STEEL	SHAPES	102.73	422	103.82	422	F	103.82	F	0.00	
53488-	10	1/29/88	AMERICAN STEEL	GALV.	904.20	22	1,232.96	30	F	1,232.96	F	0.00	
53491-	10	2/01/88	AMERICAN STEEL	GALV. SHEET	1,219.05	35	1,218.93	35	F	1,218.93	F	0.00	
53496-	10	2/03/88	AMERICAN STEEL	COLD ROLLED SHT	339.50	10	339.50	10	F	339.50	F	0.00	
53565-	10	2/02/88	AMERICAN STEEL	STEEL ANGLE	55.00	100	54.99	100	F	54.99	F	0.00	
53582-	10	2/02/88	AMERICAN STEEL	GRATEX	109.44	64	109.44	64	F	109.44	F	0.00	
53713-	10	2/05/88	AMERICAN STEEL	COLDROLLED PLATE	690.04	274	690.06	274	F	690.06	F	0.00	
54258-	10	2/19/88	AMERICAN STEEL	GALV.SHEET	596.12	14	596.89	14	F	596.89	F	0.00	
54874-	10	3/03/88	AMERICAN STEEL	GALV STL SHT	195.85	5	196.20	5	F	196.20	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
51353-	10	1/22/88	ANDREW CORP	DEHYDRATORS	3,820.00	2	3,820.00	2	P	3,820.00	F	0.00	
53342-	10	1/29/88	ANIXTER	COUPLER	90.00	4	97.00	4	F	97.00	F	0.00	
52786-	10	1/27/88	APOLLO MARINE SERV	BREAKERS	876.00	10	887.50	10	F	887.50	F	0.00	
52793-	10	1/26/88	APOLLO MARINE SERV	MCT	113.21	7	113.21	7	F	113.21	F	0.00	
53403-	10	2/08/88	APOLLO MARINE SERV	BREAKER	158.44	3	188.44	3	F	188.44	F	0.00	
53980-	10	2/11/88	APOLLO MARINE SERV	CABLE	111.60	60	194.40	60	F	194.40	F	0.00	
53998-	10	2/12/88	APOLLO MARINE SERV	LAMP	21.60	3	21.60	3	F	21.60	F	0.00	
51888-	18	12/28/87	ARGONAUT	SERVICES	5,000.00	1	4,930.00	0		4,930.00	A	0.00	
54020-	10	2/22/88	AUDIO GROUP	TRANS. AUDIO	63.00	2	63.00	2	F	63.00	F	0.00	
51907-	15	12/17/87	AUTOMATED OFFICE S	RENTAL	1,200.00	1	0.00	0		0.00	F	0.00	
51907-01	15	12/17/87	AUTOMATED OFFICE S	AMENDMENT	1,200.00-	1-	0.00	0	F	0.00	F	0.00	
52760-	10	1/06/88	AUTOMATIC SWITCH C	SOLENOID VALVES	522.00	2	539.34	2	F	539.34	A	0.00	
52763-	10	1/29/88	AUTOMATIC SWITCH C	SOLENOID VALVES	122.75	1	137.29	1	F	137.29	F	0.00	
52789-	10	1/29/88	AUTOMATIC SWITCH C	SOLENOID VALVES	122.75	1	137.29	1	F	137.29	F	0.00	
53419-	10	2/09/88	AUTOMATIC SWITCH C	SWITCH	124.95	1	127.66	1	F	127.66	F	0.00	
52806-	18	1/20/88	AUTOMOTIVE PRODUCT	SERVICES	480.00	16	361.27	0		361.27	F	0.00	
51893-	10	1/22/88	R L BALLINGER CO.	DOOR QWAT	1,525.00	3	1,611.34	3	F	1,611.34	F	0.00	
52800-	10	2/01/88	R L BALLINGER CO.	W.T. DOOR	2,000.00	2	1,891.13	2	F	1,891.13	A	0.00	
53203-	10	2/04/88	R L BALLINGER CO.	W.T. DOORS	2,390.00	5	2,687.54	4	P	2,687.54	A	0.00	
53457-	10	2/16/88	R L BALLINGER CO.	WEATHER DOOR	610.00	2	685.70	2	F	685.70	F	0.00	
53901-	10	2/16/88	R L BALLINGER CO.	WT DOOR	625.00	2	700.70	2	F	700.70	F	0.00	
51260-	10	1/07/88	E. J. BARTELLS CO.	INSULATION	8,811.14	1,001	8,832.74	1,009	F	8,832.74	F	0.00	
51915-	10	1/07/88	E. J. BARTELLS CO.	LAGGING CLOTH	2,281.06	2,225	2,340.72	2,399	F	2,340.72	F	0.00	
52339-	10	1/05/88	E. J. BARTELLS CO.	INSULATION	268.00	400	268.00	400	F	268.00	F	0.00	
52344-	10	1/20/88	E. J. BARTELLS CO.	PIPE INSULATION	203.25	75	203.25	75	F	203.25	F	0.00	
53058-	10	1/20/88	E. J. BARTELLS CO.	INSULATION	2,311.78	637	2,311.78	637	F	2,311.78	F	0.00	
53316-	10	1/28/88	E. J. BARTELLS CO.	INSULATION	134.00	200	134.00	200	F	134.00	F	0.00	
53363-	10	2/01/88	E. J. BARTELLS CO.	INSULATION	392.40	402	392.40	402	F	392.40	F	0.00	
53368-	10	1/29/88	E. J. BARTELLS CO.	CLOTH	1,055.00	2	1,055.00	2	F	1,055.00	F	0.00	
53377-	10	2/02/88	E. J. BARTELLS CO.	INSULATION	2,276.60	332	2,430.00	333	F	2,430.00	A	0.00	
53521-	10	1/29/88	E. J. BARTELLS CO.	WIRE	232.50	50	232.50	50	F	232.50	F	0.00	
54753-	10	3/04/88	E. J. BARTELLS CO.	FACED HULL BD	880.00	1,001	1,121.15	1,081	F	1,121.15	F	0.00	
52230-	10	1/04/88	BASCO	WASHER & DRYER	2,148.00	4	2,148.00	4	F	2,148.00	F	0.00	
54345-	10	2/19/88	BAY VALVE	VALVE	1,450.00	2	1,771.80	2	F	1,771.80	F	0.00	
53020-	10	1/18/88	BEARINGS, INC.	BEARINGS	450.64	6	450.10	6	F	450.10	F	0.00	
53502-	10	1/28/88	BEARINGS, INC.	BILLETS	125.79	3	128.18	0		128.18	F	0.00	
52965-	10	1/16/88	BEAVER BOLT	NUTS & BOLTS	1,131.80	177	1,129.80	177	F	1,129.80	F	0.00	
52972-	10	1/20/88	BEAVER BOLT	BOLTS	233.70	58	233.70	58	F	233.70	A	0.00	
53028-	10	1/19/88	BEAVER BOLT	NUTS & WASH	1,276.80	608	1,358.55	608	F	1,358.55	A	0.00	
53313-	10	1/29/88	BEAVER BOLT	SPRING	183.50	460	183.50	460	F	183.50	F	0.00	
52772-	15	1/07/88	BEAVER STATE SCAFF	RENTAL	605.00	1	1,169.73	0		1,169.73	A	0.00	
53382-	10	2/02/88	BELL-COM	TELEPHONES	254.40	5	254.40	5	F	254.40	F	0.00	
53086-	10	1/19/88	BLACK BALL MARINE	PAINT	897.75	65	897.30	65	F	897.30	F	0.00	
53167-	10	1/20/88	BLACK BALL MARINE	RED HAND	96.24	8	96.24	8	F	96.24	F	0.00	
54505-	10	2/22/88	BLACK BALL MARINE	PAINT	429.40	20	858.80	20	F	858.80	A	0.00	
54806-	10	3/01/88	BLACK BALL MARINE	PAINT	429.40	20	429.40	20	F	429.40	F	0.00	
52512-	10	1/18/88	BOYD CORPORATION	FOAM TAPE	311.76	57	305.04	57	F	305.04	F	0.00	
54556-	10	2/29/88	BROWER CONSTRUCTIO	F/G HULLBD	8,392.61	10,201	8,448.29	10,201	F	8,448.29	F	0.00	
51325-	18	1/08/88	BROWN BOVERI ELECT	TECH. SERVICES	5,850.00	1	7,809.43	0		7,809.43	F	0.00	
52694-	10	1/20/88	BYE ENGRAVING, INC	LABEL PLATES	105.00	14	105.00	14	F	105.00	F	0.00	
53077-	10	1/29/88	BYE ENGRAVING, INC	LABEL PLATES	601.00	97	601.00	0		601.00	F	0.00	
53486-	10	2/04/88	BYE ENGRAVING, INC	LABEL PLATES	306.00	68	306.00	68	F	306.00	F	0.00	
53534-	10	2/10/88	BYE ENGRAVING, INC	LABEL PLATES	90.00	20	90.00	20	F	90.00	F	0.00	
53952-	10	2/16/88	BYE ENGRAVING, INC	LABEL PLATES	162.50	26	162.50	26	F	162.50	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
54487-	10	2/23/88	BYE ENGRAVING, INC	LABEL PLATES	335.00	35	335.00	0		335.00	F	0.00	
52237-	10	1/07/88	CPC EQUIPMENT	LOCKERS	870.00	10	870.00	10	F	870.00	F	0.00	
53876-	10	2/10/88	CASCADE COMMERCIAL	STL SHELVES	1,210.00	1	1,210.00	1	F	1,210.00	F	0.00	
54388-	10	2/23/88	CHOWN HARDWARE & M	DOOR STOP	550.10	31	487.50	31	F	487.50	F	0.00	
53954-	10	2/09/88	CLOPAY WINDOW FASH	RODS	230.00	301	219.65	301	F	219.65	F	0.00	
52696-	10	1/13/88	COAST INDUSTRIAL S	FASTENERS	60.12	80	60.12	80	F	60.12	F	0.00	
53055-	10	1/19/88	COLUMBIA BANDING	LAGGING CLOTH	417.44	53	417.44	53	F	417.44	F	0.00	
53136-	10	1/25/88	COLUMBIA BANDING	ARABOL	315.00	35	315.00	35	F	315.00	F	0.00	
53519-	10	2/03/88	COLUMBIA BANDING	FOSTERS 8520	365.00	20	365.00	20	F	365.00	F	0.00	
53525-	10	2/05/88	COLUMBIA BANDING	PIPE COVER	598.16	498	598.71	503	F	598.71	F	0.00	
53939-	10	2/08/88	COLUMBIA BANDING	PIPE COVERING	2,083.42	1,162	2,098.76	1,173	F	2,098.76	F	0.00	
54555-	10	2/26/88	COLUMBIA BANDING	INSUL. MATL.	1,078.50	1,830	1,084.06	1,800	P	1,084.06	F	0.00	
54752-	10	3/03/88	COLUMBIA BANDING	MISC. INS.	1,167.00	1,350	1,167.00	1,350	F	1,167.00	F	0.00	
54271-	18	2/24/88	COLUMBIA RIVER BAR	PILOT SERVICES	1,188.00	1	1,463.00	0		1,463.00	A	0.00	
51734-	18	1/11/88	COLUMBIA RIVER PIL	PILOTS	420.00	1	570.00	0		570.00	F	0.00	
53106-	18	1/21/88	COLUMBIA RIVER PIL	PILOT SERVICE	420.00	1	420.00	0		420.00	F	0.00	
54278-	18	2/24/88	COLUMBIA RIVER PIL	PILOT SERVICES	1,870.00	1	1,721.18	0		1,721.18	F	0.00	
52316-	10	1/06/88	CONSOLIDATED SUPPL	LAVATORIES	4,230.57	79	4,222.92	78	P	4,222.92	F	0.00	
52363-	10	1/06/88	CONSOLIDATED SUPPL	SHOWER SUPPLIES	1,688.91	19	384.75	17	P	384.75	A	0.00	
52482-	10	2/12/88	CONSOLIDATED SUPPL	FAUCETS	806.16	8	798.12	0		798.12	F	0.00	
53567-	10	2/05/88	CONSOLIDATED SUPPL	SHOWER VALVES	1,382.40	12	1,419.90	12	F	1,419.90	F	0.00	
53654-	10	2/08/88	CONSOLIDATED SUPPL	HANGERS	64.08	6	69.08	6	F	69.08	F	0.00	
53888-	10	2/12/88	CONSOLIDATED SUPPL	SHOWER VALVES	2,324.00	21	2,379.00	21	F	2,379.00	F	0.00	
54087-	10	2/12/88	CONSOLIDATED SUPPL	SHOWER BRACKETS	106.80	10	145.84	13	F	145.84	F	0.00	
54412-	10	2/20/88	CONSOLIDATED SUPPL	SHOWER VALVES	681.90	6	681.90	6	F	681.90	F	0.00	
54416-	10	2/22/88	CONSOLIDATED SUPPL	FAUCET	87.62	1	87.62	1	F	87.62	F	0.00	
54722-	10	2/26/88	CONSOLIDATED SUPPL	FLUSH VALVE	59.94	1	59.94	1	F	59.94	F	0.00	
54769-	10	2/29/88	CONSOLIDATED SUPPL	SHOWER HEADS	81.00	4	81.00	4	F	81.00	F	0.00	
53670-	10	2/08/88	CONSTRUCTION SERVI	WINCHES	2,908.00	3	2,987.79	3	F	2,987.79	A	0.00	
54465-	10	2/23/88	CONSTRUCTION SERVI	WINCH	1,529.00	2	1,625.80	2	F	1,625.80	F	0.00	
54465-01	10	2/24/88	CONSTRUCTION SERVI	CARTRIDGES	300.31	1	300.31	0		300.31	F	0.00	
54950-	10	3/01/88	CONSTRUCTION SERVI	RELIEF CARTRIDGE	426.74	3	439.24	3	F	439.24	F	0.00	
52919-	10	1/16/88	COVERALL UNIFORM C	COVERALLS	22.50	1	22.50	0		22.50	F	0.00	
52524-	15	1/12/88	CROSBY & OVERTON,	BLAST MACHINE	4,560.00	1	4,560.00	0		4,560.00	F	0.00	
54275-	18	2/19/88	DALE'S CATERING SE	SERVICES	7,555.00	1	7,555.00	0		7,555.00	F	0.00	
53014-	10	1/18/88	DASIC INTERNATIONA	PAINT	475.00	20	475.00	20	F	475.00	F	0.00	
53133-	15	1/25/88	DATAGRAPHICS NORTH	RENTAL	225.00	1	300.00	0		300.00	F	0.00	
52091-	10	4/04/88	A. J. DAVIS & SONS	CORDS & CAPS	4,064.00	10,400	4,057.00	10,400	F	4,057.00	F	0.00	
52116-	10	1/08/88	A. J. DAVIS & SONS	FIXTURE	2,482.85	186	2,482.85	186	P	2,482.85	F	0.00	
52157-	10	1/06/88	A. J. DAVIS & SONS	BREAKER	24.00	2	24.00	2	F	24.00	F	0.00	
52717-	10	1/06/88	A. J. DAVIS & SONS	MISC. ELECT.	1,276.80	279	1,276.80	279	P	1,276.80	F	0.00	
52717-01	10	1/23/88	A. J. DAVIS & SONS	MISC. ELECT.	149.50	1	149.00	0		149.00	F	0.00	
52795-	10	1/27/88	A. J. DAVIS & SONS	BREAKER	70.90	2	72.00	2	F	72.00	F	0.00	
53330-	10	1/27/88	A. J. DAVIS & SONS	PLUMBING SUPPLIE	202.75	50	202.75	50	F	202.75	F	0.00	
53376-	10	2/05/88	A. J. DAVIS & SONS	CURTAIN RODS	17.46	9	17.50	5	P	17.50	F	0.00	
53571-	10	1/29/88	A. J. DAVIS & SONS	CHROME TUBE	39.90	42	39.90	42	F	39.90	F	0.00	
53984-	10	2/10/88	A. J. DAVIS & SONS	CUT IN BOXES	49.42	14	49.42	14	F	49.42	F	0.00	
54615-	10	3/02/88	A. J. DAVIS & SONS	TWISTLOCK	90.98	4	91.98	4	F	91.98	F	0.00	
52262-	10	1/22/88	DAVIS INDUSTRIAL P	TOOLS	9,239.00	14	9,609.00	14	P	9,609.00	A	0.00	
52677-	10	1/14/88	DAVIS INDUSTRIAL P	TOOLS	68.50	75	68.50	75	F	68.50	F	0.00	
53097-	10	1/20/88	DAVIS INDUSTRIAL P	BRUSH	444.00	24	444.00	36	F	444.00	F	0.00	
53759-	10	2/03/88	DAVIS INDUSTRIAL P	DISCS	85.00	100	85.00	100	F	85.00	F	0.00	
54143-	10	2/12/88	DAVIS INDUSTRIAL P	SNAP-ON	450.55	4	450.55	4	F	450.55	F	0.00	
54230-	10	2/17/88	DAVIS INDUSTRIAL P	TOOLS	442.90	62	442.90	62	F	442.90	F	0.00	

******** STATUS: CLOSED ******** SORTED BY VENDOR CODE

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
53354-	10	1/28/88	HARDWARE SPECIALTY	SYMBOL	2,550.00	30	2,711.05	30	P	2,711.05	A	0.00	
53420-	10	2/09/88	HARDWARE SPECIALTY	CABLE	65.00	50	189.90	50	F	189.90	A	0.00	
53991-	10	2/11/88	HARDWARE SPECIALTY	SYMBOL	95.00	1	95.00	1	F	95.00	F	0.00	
54638-	10	3/04/88	HARDWARE SPECIALTY	ALRM BELL	435.00	3	439.19	3	F	439.19	F	0.00	
52484-	10	2/09/88	HAYS DIV. / ROMAC	CONTROL VALVES	734.16	7	737.66	7	F	737.66	F	0.00	
54834-	10	2/25/88	HENDREN MARINE & T	LOGS	505.00	1	505.00	0		505.00	F	0.00	
54385-	10	2/20/88	HEWITT OFFICE PROD	FILE CAB.	125.00	1	125.00	1	F	125.00	F	0.00	
52388-	15	1/11/88	HIGH REACH, INC.	RENTAL	4,950.00	2	6,202.85	0		6,202.85	F	0.00	
52836-	15	1/13/88	HIGH REACH, INC.	RENTAL	1,500.00	1	2,523.21	0		2,523.21	F	0.00	
54837-	15	3/02/88	HIGH REACH, INC.	RENTAL	400.00	1	626.95	0		626.95	F	0.00	
53041-	10	1/18/88	HILTI INC.	PARTS	117.22	5	117.22	5	F	117.22	F	0.00	
54855-	18	3/04/88	HOBART SALES & SER	SERVICE	315.25	1	315.25	0		315.25	F	0.00	
52142-	10	2/16/88	HOPKINS ENGINEERIN	FILTER	1,241.14	1	1,277.39	1	P	1,277.39	A	0.00	
53187-	10	1/26/88	KEN R. HUMKE	TIE DOWN FITTING	217.20	30	217.20	30	F	217.20	F	0.00	
54175-	10	2/12/88	KEN R. HUMKE	AL SILICONE	149.40	36	149.40	36	F	149.40	F	0.00	
54380-	10	2/18/88	KEN R. HUMKE	N-PLTD LATCHES	125.28	24	125.28	24	F	125.28	F	0.00	
54712-	10	2/25/88	KEN R. HUMKE	"D" RINGS	72.40	10	72.40	10	F	72.40	F	0.00	
53938-	10	2/11/88	HUSER SALES & SERV	AIR FLASKS	90.00	1	90.00	0		90.00	F	0.00	
52438-	10	1/05/88	IRC ALUMINUM & STA	ALUM. SHAPES	294.90	170	294.91	170	F	294.91	F	0.00	
52699-	10	1/15/88	IRC ALUMINUM & STA	SHAPES, S.S.	2,740.00	1,000	2,735.95	998	P	2,735.95	F	0.00	
52741-	10	1/20/88	IRC ALUMINUM & STA	SS SHAPE	870.00	200	855.21	197	P	855.21	F	0.00	
52902-	10	1/14/88	IRC ALUMINUM & STA	S.S. FLAT BAR	357.00	204	357.00	204	F	357.00	F	0.00	
53639-	10	2/02/88	IRC ALUMINUM & STA	SS PIPE	75.20	20	78.96	21	F	78.96	F	0.00	
53751-	10	2/05/88	IRC ALUMINUM & STA	TUBING	420.00	40	404.00	40	F	404.00	F	0.00	
54482-	10	2/23/88	IRC ALUMINUM & STA	S.S. TUBING	222.20	40	222.70	40	F	222.70	F	0.00	
54750-	10	2/29/88	IRC ALUMINUM & STA	AL ANGLE	243.25	175	243.81	175	F	243.81	F	0.00	
51775-	10	1/01/88	IN-MAR SALES, INC.	GREASE STICKS	65.00	1	65.00	1	F	65.00	F	0.00	
52423-	10	1/11/88	IN-MAR SALES, INC.	DRAIN ORIFICE	123.00	2	123.00	2	F	123.00	F	0.00	
52474-	10	1/07/88	IN-MAR SALES, INC.	THINNER	2,193.75	60	2,193.75	60	F	2,193.75	F	0.00	
52920-	10	1/14/88	IN-MAR SALES, INC.	ENAMEL	243.00	20	243.00	20	F	243.00	F	0.00	
53328-	18	1/26/88	IN-MAR SALES, INC.	SERVICE	8,100.00	1	8,159.00	0		8,159.00	F	0.00	
53767-	10	4/04/88	IN-MAR SALES, INC.	PAINT	1,058.80	37	1,058.80	37	F	1,058.80	F	0.00	
54238-	10	2/18/88	IN-MAR SALES, INC.	ROLLER COVERS	45.60	24	45.60	24	F	45.60	F	0.00	
54324-	10	2/23/88	IN-MAR SALES, INC.	PAINT	244.50	10	244.50	10	F	244.50	F	0.00	
52619-	10	1/14/88	INDUSTRIAL GRINDIN	SERVICES	300.00	15	367.50	0		367.50	F	0.00	
53509-	10	2/04/88	INDUSTRIAL GRINDIN	SHARPEN	100.00	5	122.50	0		122.50	F	0.00	
52303-	10	1/06/87	INDUSTRIAL VALVE O	PIPE	532.00	120	558.60	126	F	558.60	F	0.00	
52314-	10	1/06/88	INDUSTRIAL VALVE O	DOMESTIC PIPE	1,060.00	220	1,098.90	230	P	1,098.90	F	0.00	
52367-	10	1/06/88	INDUSTRIAL VALVE O	PIPE	115.00	20	109.25	19	P	109.25	F	0.00	
52481-	10	1/08/88	INDUSTRIAL VALVE O	PIPE	87.00	40	86.70	60	F	86.70	F	0.00	
52988-	10	1/18/88	INDUSTRIAL VALVE O	FITTINGS	191.60	47	191.60	47	F	191.60	F	0.00	
53062-	10	1/19/88	INDUSTRIAL VALVE O	PIPE FITTINGS	475.50	36	475.50	36	F	475.50	F	0.00	
53066-	10	1/19/88	INDUSTRIAL VALVE O	PIPE	289.80	84	289.80	84	F	289.80	F	0.00	
53180-	10	1/22/88	INDUSTRIAL VALVE O	UNION	381.60	24	381.60	24	F	381.60	F	0.00	
53321-	10	2/05/88	INTERMOUNTAIN INDU	STEAM HOSE	521.00	2	0.00	0		0.00	F	0.00	
53321-01	10	2/02/88	INTERMOUNTAIN INDU	STEAM HOSE	521.00-	2-	0.00	0	F	0.00	F	0.00	
53700-	15	2/03/88	INTERSTATE RENTALS	RENTAL-RIVT GUNS	660.00	6	660.00	0		660.00	F	0.00	
54172-	15	2/12/88	INTERSTATE RENTALS	RENTAL	140.00	1	323.22	1	F	323.22	F	0.00	
51079-	10	2/01/88	JAMESTOWN METAL MA	FURNITURE	127,326.00	243	134,514.06	233	F	134,514.06	A	0.00	
53235-	10	1/12/88	JAMESTOWN METAL MA	MATTRESS SETS	5,565.00	21	5,565.00	21	F	5,565.00	F	0.00	
53235-01	10	2/16/88	JAMESTOWN METAL MA	MATTRESS ONLY	235.00	2	1,019.41	0		1,019.41	A	0.00	
54348-	10	2/19/88	JAMESTOWN METAL MA	DECK PADS	375.00	30	375.00	30	F	375.00	F	0.00	
53047-	10	1/21/88	JEWETT-CAMERON	LUMBER	1,100.00	5,000	1,100.00	5,008	F	1,100.00	F	0.00	
53047-01	10	1/21/88	JEWETT-CAMERON	ADDENDUM	364.54	1,657	366.74	1,664	F	366.74	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
51988-	18	1/10/88	JIGGS' FLOORS	SERVICE	160,000.00	21	160,000.00	0		160,000.00	F	0.00	
54336-	10	2/26/88	JIGGS' FLOORS	SERVICE	420.00	1	420.00	0		420.00	F	0.00	
54434-	10	2/19/88	JIGGS' FLOORS	OVERTIME	1,400.00	1	1,400.00	0		1,400.00	F	0.00	
55128-	10	3/03/88	JIGGS' FLOORS	UNDERLAYMENT	6,378.00	2	6,378.00	0		6,378.00	F	0.00	
55128-01	18	3/09/88	JIGGS' FLOORS	FLOORING	2,214.00	1	2,214.00	0		2,214.00	F	0.00	
52106-	10	1/04/88	JOHNSTONE SUPPLY	HEATER	51.22	2	51.22	2	F	51.22	F	0.00	
52969-	10	2/12/88	JUNIPER INDUSTRIES	BELLMOUTHS	1,015.00	28	1,027.69	28	F	1,027.69	F	0.00	
53948-	10	2/12/88	K.W.S. CORPORATION	TAPE	582.72	96	582.72	96	F	582.72	F	0.00	
52351-	10	1/12/88	KADLEC PACKAGING	DRUM LINERS	794.98	424	795.00	424	F	795.00	F	0.00	
53302-	10	2/01/88	KADLEC PACKAGING	DRUM LINERS	356.00	4	356.00	4	F	356.00	F	0.00	
53532-	10	2/08/88	KADLEC PACKAGING	DRUM LINERS	795.00	10	795.00	10	F	795.00	F	0.00	
51329-	18	1/08/88	KAUFFMAN COMPASS A	TECH. SERVICES	1,195.00	1	1,195.00	0		1,195.00	F	0.00	
51690-	10	1/22/88	KEARFOTT MARINE PR	FIXED WINDOWS	2,500.00	11	2,578.10	11	F	2,578.10	F	0.00	
52417-	10	1/05/88	KNAPPTON CORPORATI	SERVICES	100.00	1	190.00	0		190.00	F	0.00	
54443-	18	2/24/88	KNAPPTON CORPORATI	SERVICES	360.00	2	620.00	0		620.00	A	0.00	
52390-	15	1/07/88	LANDA INC.	PRESSURE WASHER	1,750.00	2	2,500.00	0		2,500.00	F	0.00	
52600-	10	1/29/88	A.R. LARSON CO.	STEAM KETTLE	3,787.00	1	3,787.00	1	P	3,787.00	F	0.00	
53472-	10	2/01/88	LIBERTY EQUIPMENT	DECK DRAINS	675.00	5	741.00	5	F	741.00	F	0.00	
53644-	10	2/04/88	LIBERTY EQUIPMENT	DECK DRAINS	800.00	4	853.50	4	F	853.50	F	0.00	
51960-	10	2/01/88	LIFEFITNESS	LIFEROWER	2,905.00	2	2,890.00	2	F	2,890.00	F	0.00	
51803-	18	12/11/87	LIPS PROPELLERS	SERVICES	19,400.00	1	21,400.00	0		21,400.00	F	0.00	
52565-	10	1/12/88	MQS INSPECTION, IN	SERVICES	500.00	1	2,640.00	0		2,640.00	F	0.00	
53499-	10	1/29/88	MACADAM ALUMINUM	PATTERN	165.00	6	165.00	5	P	165.00	F	0.00	
52975-	10	1/19/88	MAR-DUSTRIAL SALES	GASKETS	275.68	12	390.68	12	F	390.68	A	0.00	
53027-	10	1/19/88	MAR-DUSTRIAL SALES	PACKING	2,610.18	79	2,618.13	79	F	2,618.13	F	0.00	
53038-	10	1/20/88	MAR-DUSTRIAL SALES	VALVE	1,780.00	1	1,780.00	1	F	1,780.00	F	0.00	
53260-	10	1/25/88	MAR-DUSTRIAL SALES	CONDENSERS	640.00	1,000	640.00	0		640.00	F	0.00	
53277-	10	2/03/88	MAR-DUSTRIAL SALES	GASKETS	195.75	3	283.75	3	F	283.75	F	0.00	
53681-	10	2/03/88	MAR-DUSTRIAL SALES	RUBBER	164.32	1	164.32	1	F	164.32	F	0.00	
54140-	10	2/11/88	MAR-DUSTRIAL SALES	GASKETS	164.00	3	164.50	3	F	164.50	F	0.00	
54364-	10	2/18/88	MAR-DUSTRIAL SALES	PARTS	304.00	14	304.00	14	F	304.00	F	0.00	
54946-	10	3/04/88	MAR-DUSTRIAL SALES	RING NUTS	93.00	5	93.00	5	F	93.00	F	0.00	
55002-	10	3/04/88	MAR-DUSTRIAL SALES	DOG BOLTS/NUTS	478.80	18	478.80	18	F	478.80	F	0.00	
52513-	18	1/06/88	MARINE & ENVIRONME	GAS FREE	500.00	1	1,720.00	0		1,720.00	F	0.00	
53108-	18	1/20/88	MARINE & ENVIRONME	ASBESTOS TESTS	1,850.00	37	2,600.00	0		2,600.00	F	0.00	
51359-	10	12/14/87	MARINE LAND SERVIC	BREAKERS	32.40	2	32.40	2	F	32.40	F	0.00	
52083-	10	1/08/87	MARINE LAND SERVIC	MISC. ELECT.	1,763.93	71	1,507.21	55	P	1,507.21	F	0.00	
52083-01	10	1/06/88	MARINE LAND SERVIC	FUSE BLOCK	200.16-	16-	0.00	0	F	0.00	F	0.00	
52083-02	10	1/14/88	MARINE LAND SERVIC	AMENDMENT	79.93	1	79.93	0		79.93	F	0.00	
52719-	10	1/18/88	MARINE LAND SERVIC	MISC. ELECT.	970.68	902	966.48	902	F	966.48	F	0.00	
52719-01	10	1/28/88	MARINE LAND SERVIC	AMEND	728.00	800	784.00	800	F	784.00	F	0.00	
52769-	10	1/25/88	MARINE LAND SERVIC	HANGERS	210.50	51	212.00	51	F	212.00	F	0.00	
53340-	10	1/29/88	MARINE LAND SERVIC	RELAY	114.00	4	114.00	4	F	114.00	F	0.00	
53350-	10	2/01/88	MARINE LAND SERVIC	CONNECTORS	2,233.92	19	2,291.05	19	F	2,291.05	F	0.00	
53415-	10	2/08/88	MARINE LAND SERVIC	FUSES	213.60	48	228.00	48	F	228.00	F	0.00	
54073-	10	10/22/68	MARINE LAND SERVIC	OVERLOAD	116.00	2	127.50	2	F	127.50	F	0.00	
54587-	10	2/26/88	MARINE LAND SERVIC	ELECT	80.22	4	80.22	4	F	80.22	F	0.00	
54646-	10	3/03/88	MARINE LAND SERVIC	BREAKER	366.40	1	414.40	1	F	414.40	F	0.00	
54652-	10	3/04/88	MARINE LAND SERVIC	HUMIDISTATS	159.86	2	159.86	2	F	159.86	F	0.00	
51802-	18	12/11/87	MARINE PROPULSION	SERVICES	16,750.00	1	16,750.00	0		16,750.00	F	0.00	
51802-01	10	2/22/88	MARINE PROPULSION	ADD. WORK	3,480.00	1	3,480.00	0		3,480.00	F	0.00	
51802-02	18	3/08/88	MARINE PROPULSION	SERVICES	1,843.00	1	1,843.17	0		1,843.17	F	0.00	
52263-	10	7/29/88	MARINE PROPULSION	SPARE PARTS	30,000.00	43	0.00	0		0.00	F	0.00	
54157-	10	2/16/88	MARINE PROPULSION	PUMP RUNNER	150.00	1	150.00	0		150.00	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
51693-	10	1/29/88	MARINE STRUCTURES,	QAWT DOOR	12,375.00	5	0.00	0		0.00	F	0.00	
51693-01	10	12/16/87	MARINE STRUCTURES,	AMENDMENT	11,875.00-	4-	0.00	0	F	0.00	F	0.00	
52838-	10	1/29/88	MARINERS SUPPLY CO	LIFE RAFTS	6,579.86	1	6,579.86	1	F	6,579.86	F	0.00	
52971-	10	1/15/88	MARINERS SUPPLY CO	PACKING	2,991.10	154	2,989.12	154	F	2,989.12	F	0.00	
53145-	10	1/22/88	MARINERS SUPPLY CO	ZINC	42.00	40	42.00	40	F	42.00	F	0.00	
53033-	10	1/21/88	MC GUIRE BEARING C	KLOZURE	888.00	1	888.00	1	F	888.00	F	0.00	
53149-	10	1/22/88	MC GUIRE BEARING C	NEOPRENE RUBBER	106.65	2	106.65	2	F	106.65	F	0.00	
53617-	10	2/02/88	MC GUIRE BEARING C	BEARING	793.70	2	793.70	2	F	793.70	F	0.00	
53792-	10	2/09/88	MC GUIRE BEARING C	PARTS	566.66	1	584.70	1	F	584.70	F	0.00	
54090-	10	2/16/88	MCINTYRE ENGR CO I	HEATERS	464.00	2	527.90	2	F	527.90	F	0.00	
51765-	10	12/17/87	MC MASTER CARR SUP	SAFETY EQUIP.	2,907.46	45	2,752.51	45	F	2,752.51	A	0.00	
51771-01	10	2/16/88	MC MASTER CARR SUP	ALUM GRATING	1,017.60-	60-	0.00	0	F	0.00	F	0.00	
52248-	10	1/06/88	MC MASTER CARR SUP	CAST IRON SINK	480.10	1	480.10	1	F	480.10	F	0.00	
52276-	10	1/11/88	MC MASTER CARR SUP	WORKBENCH	821.86	2	818.48	2	F	818.48	F	0.00	
52309-	10	1/06/88	MC MASTER CARR SUP	PLUMBING SUPP.	393.37	4	504.61	4	F	504.61	A	0.00	
52259-	10	12/28/87	METAL GOODS SERVIC	SERVICES	4,824.00	180	4,862.86	180	F	4,862.86	F	0.00	
52174-	10	12/21/87	METRA STEEL CO.	STEEL SHAPES	133.80	100	133.91	100	F	133.91	F	0.00	
52496-	10	1/07/88	METRA STEEL CO.	STEEL SHAPES	251.16	1,040	251.16	1,040	F	251.16	F	0.00	
52563-	10	1/11/88	METRA STEEL CO.	ANGLE	453.82	1,001	435.57	1,001	F	435.57	F	0.00	
52918-	10	1/15/88	METRA STEEL CO.	STL. SHAPE	62.00	1	62.00	1	F	62.00	F	0.00	
53324-	10	1/27/88	METRA STEEL CO.	STEEL ANGLE	30.80	20	30.89	20	F	30.89	F	0.00	
53995-	10	2/15/88	METROPLEX ELECTRON	RADIO	224.75	5	224.75	5	F	224.75	F	0.00	
52120-	10	1/15/88	MICRO POWER ELECTR	BATTERY	146.95	2	0.00	0	P	0.00	F	0.00	
52120-01	10	1/15/88	MICRO POWER ELECTR	BATTERY	146.95-	1-	0.00	0	F	0.00	F	0.00	
51326-	18	1/08/88	MONTGOMERY ELEVATO	TECH. SERVICES	32,247.00	2	32,247.00	0		32,247.00	F	0.00	
54312-	18	2/18/88	MONTGOMERY ELEVATO	LABOR & MAT'L	800.00	1	800.00	0		800.00	F	0.00	
52454-	10	2/12/88	NAUTILUS SPORTS ME	FITNESS EQUIPMT	2,932.65	2	2,932.65	2	F	2,932.65	F	0.00	
53371-	10	2/10/88	NORTH COAST CANVAS	CURTAINS	1,690.00	42	1,690.00	42	F	1,690.00	F	0.00	
54077-	10	2/26/88	NORTH COAST CANVAS	COVER	100.00	2	100.00	2	F	100.00	F	0.00	
51698-	10	12/30/87	NORTH COAST ELECTR	VOLTMETER	1,880.00	8	1,895.39	8	F	1,895.39	F	0.00	
55201-	28	3/07/88	NORTHERN AIR FREIG	SHIPPING	48.00	1	44.00	0		44.00	F	0.00	
55880-	28	3/22/88	NORTHERN AIR FREIG	SHIPPING	301.27	1	291.00	0		291.00	F	0.00	
51977-	10	1/15/88	NORTHWEST FITNESS	FITNESS EQUIP.	26,073.00	19	26,073.00	13	P	26,073.00	F	0.00	
54146-	10	2/11/88	NORTHWEST MARINE I	GRINDING	200.00	2	150.00	0		150.00	F	0.00	
54298-	10	2/17/88	NORTHWEST MARINE I	SHIMS	450.00	2	450.00	0		450.00	F	0.00	
52572-	18	1/11/88	NORTHWEST TESTING	SERVICES	100.00	1	210.00	0		210.00	F	0.00	
52812-	18	1/18/88	NORTHWEST TESTING	TESTING	300.00	2	300.00	0		300.00	F	0.00	
53124-	18	1/20/88	NORTHWEST TESTING	X-RAY	1,406.25	1	1,500.00	0		1,500.00	A	0.00	
53786-	10	2/09/88	NORTHWEST TESTING	TEST	630.00	6	630.00	0		630.00	F	0.00	
53934-	10	2/11/88	NORTHWEST TESTING	TEST	630.00	6	1,260.00	0		1,260.00	A	0.00	
54151-	10	2/12/88	NORTHWEST TESTING	TESTING	630.00	6	630.00	0		630.00	F	0.00	
52948-	10	1/25/88	NORTH CONSUMER PRO	CLIMBER SAFETY R	208.80	26	215.70	26	F	215.70	F	0.00	
53738-	10	2/03/88	NORVAC SERVICES, I	CITRIC ACID	502.50	5	502.50	0		502.50	F	0.00	
54182-	18	2/08/88	NORVAC SERVICES, I	SERVICE	13,920.00	1	13,920.00	0		13,920.00	F	0.00	
55220-	18	3/08/88	OIL FIELD ELECTRIC	SERVICES	1,500.00	1	2,494.20	0		2,494.20	A	0.00	
52374-	10	1/06/88	OIL FILTER SERVICE	LUBRICATOR	247.58	11	247.98	11	F	247.98	F	0.00	
52669-	10	2/12/88	OIL FILTER SERVICE	FILTER	243.20	20	243.20	20	F	243.20	F	0.00	
52976-	10	1/20/88	OIL FILTER SERVICE	FITTINGS	158.10	60	158.10	60	F	158.10	F	0.00	
53022-	10	1/20/88	OIL FILTER SERVICE	FILTERS	37.56	8	37.56	8	F	37.56	F	0.00	
53259-	10	1/25/88	OIL FILTER SERVICE	MUSLIN BAGS	379.00	50	379.00	50	F	379.00	F	0.00	
53265-	10	1/26/88	OIL FILTER SERVICE	MUSLIN BAGS	272.88	36	272.88	36	F	272.88	F	0.00	
53613-	10	2/02/88	OIL FILTER SERVICE	VALVES	34.64	9	34.64	9	F	34.64	F	0.00	
54133-	10	2/11/88	OIL FILTER SERVICE	FITTINGS	61.74	2	61.74	2	F	61.74	F	0.00	
54156-	10	2/12/88	OIL FILTER SERVICE	PARTS	295.20	40	295.20	40	F	295.20	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
54853-	10	3/01/88	OIL FILTER SERVICE	HOSE ASSY	164.16	2	164.16	2	F	164.16	F	0.00	
53710-	10	2/05/88	OREGON METAL SLITT	BO	203.40	10	447.78	22	F	447.78	F	0.00	
53715-	10	2/05/88	OREGON METAL SLITT	ELECTRO GALV.SHT	1,258.62	33	1,258.65	33	F	1,258.65	F	0.00	
53718-	10	2/08/88	OREGON METAL SLITT	GALV.SHEET	667.44	9	668.16	9	F	668.16	F	0.00	
52566-	10	1/11/87	OREGON WIRE PRODUC	WIRE MESH	120.00	15	120.00	15	F	120.00	F	0.00	
51093-	10	1/20/88	PACIFIC COAST MARI	W.T. DOORS	8,248.00	7	8,334.66	7	F	8,334.66	F	0.00	
51961-	10	2/05/88	PACIFIC COAST MARI	DOORS	3,634.00	3	3,520.65	3	F	3,520.65	F	0.00	
53352-	18	2/01/88	PACIFIC ELECTRIC	SERVICES	1,400.00	1	1,400.00	1	F	1,400.00	F	0.00	
54049-	18	2/22/88	PACIFIC ELECTRIC	SVCS	173.50	1	173.50	0		173.50	F	0.00	
54575-	18	2/25/88	PACIFIC ELECTRIC	SVCS	145.00	1	145.00	0		145.00	F	0.00	
52341-	10	1/05/88	PACIFIC INSULATION	INSULATION	108.36	90	108.36	90	F	108.36	F	0.00	
53940-	10	2/09/88	PACIFIC INSULATION	PIPE COVERING	471.15	207	459.15	207	F	459.15	F	0.00	
53941-	10	2/09/88	PACIFIC INSULATION	ADHESIVE	454.08	48	454.08	48	F	454.08	F	0.00	
53942-	10	2/09/88	PACIFIC INSULATION	COATING	435.00	30	435.00	30	F	435.00	F	0.00	
51917-	10	12/28/87	PACIFIC INSULATION	INSULATION	554.37	615	554.37	615	F	554.37	F	0.00	
54242-	10	2/18/88	PACIFIC INSULATION	INSULATION	1,904.90	291	1,905.90	291	F	1,905.90	F	0.00	
53832-	10	2/05/88	PACIFIC MACHINERY	ALLOY BAR STOCK	69.19	4	69.19	4	F	69.19	F	0.00	
52275-	10	12/28/87	PACIFIC METAL CO.	GALVANEAL	2,067.53	53	2,067.53	53	F	2,067.53	F	0.00	
52322-	10	12/31/87	PACIFIC METAL CO.	GALVANEAL	1,443.37	37	1,443.37	37	F	1,443.37	F	0.00	
53702-	10	2/04/88	PACIFIC METAL CO.	POP RIVETS	1,004.00	5,001	1,002.50	5,001	F	1,002.50	F	0.00	
54120-	10	2/17/88	PACIFIC METAL CO.	ALUM ANGLE	239.56	106	236.17	106	F	236.17	F	0.00	
54245-	10	2/19/88	PACIFIC METAL CO.	ALUM	129.50	1	129.50	1	F	129.50	F	0.00	
52662-	18	1/15/88	PACIFIC N.W. PLATI	SERVICES	510.00	6	510.00	0		510.00	F	0.00	
52935-	10	1/15/88	PACIFIC OFFICE AUT	TONER	112.00	4	112.00	4	F	112.00	F	0.00	
54838-	10	3/03/88	PACIFIC OFFICE AUT	RAPAIR	46.35	2	46.35	0		46.35	F	0.00	
52255-	10	1/06/88	PARAMOUNT SUPPLY C	VALVE/DRAIN	507.00	2	507.00	2	F	507.00	F	0.00	
52304-	10	1/06/88	PARAMOUNT SUPPLY C	S/B FITTINGS	368.56	12	368.56	12	F	368.56	F	0.00	
52366-	10	1/06/88	PARAMOUNT SUPPLY C	STRAINERS/TRAPS	952.20	5	952.20	5	F	952.20	F	0.00	
52373-	10	1/06/88	PARAMOUNT SUPPLY C	DECK DRAINS	870.00	5	870.00	5	F	870.00	F	0.00	
52610-	10	1/12/88	PARAMOUNT SUPPLY C	90 DEGREE ELBOW	170.10	21	170.10	14	P	170.10	F	0.00	
52618-	10	1/13/88	PARAMOUNT SUPPLY C	VALVES	1,329.00	6	1,329.00	6	F	1,329.00	F	0.00	
52695-	10	1/15/88	PARAMOUNT SUPPLY C	SCUPPER ELBOWS	2,492.00	14	2,528.50	14	F	2,528.50	F	0.00	
53070-	10	2/01/88	PARAMOUNT SUPPLY C	SCUPPER LIPS	1,602.00	9	1,602.00	9	F	1,602.00	F	0.00	
53184-	10	1/25/88	PARAMOUNT SUPPLY C	UNIONS	309.50	30	309.50	30	F	309.50	F	0.00	
53334-	10	1/27/88	PARAMOUNT SUPPLY C	UNIONS	80.04	6	80.04	6	F	80.04	F	0.00	
53581-	10	1/29/88	PARAMOUNT SUPPLY C	FITTINGS	111.25	31	111.25	31	F	111.25	F	0.00	
53588-	10	2/01/88	PARAMOUNT SUPPLY C	FLANGES	115.00	4	115.00	4	F	115.00	F	0.00	
53650-	10	2/03/88	PARAMOUNT SUPPLY C	FITTINGS	157.00	4	157.00	4	F	157.00	F	0.00	
54088-	10	2/09/88	PARAMOUNT SUPPLY C	STAINLESS	571.50	6	571.50	6	F	571.50	F	0.00	
54180-	10	2/18/88	PARAMOUNT SUPPLY C	VENT	282.00	6	282.00	6	F	282.00	F	0.00	
54311-	10	2/17/88	PARAMOUNT SUPPLY C	VALVES	303.20	100	303.20	100	F	303.20	F	0.00	
54731-	10	2/26/88	PARAMOUNT SUPPLY C	FLANGES	220.50	18	220.50	18	F	220.50	F	0.00	
55223-	18	3/11/88	PARKER EMERSON & A	SERVICES	1,500.00	1	1,500.00	0		1,500.00	F	0.00	
52113-	15	1/06/88	PATENT SCAFFOLDING	RENTAL	159.00	1	655.61	0		655.61	A	0.00	
52128-	15	1/07/88	PATENT SCAFFOLDING	RENTAL	239.14	2	239.14	0		239.14	F	0.00	
52703-	15	1/18/88	PATENT SCAFFOLDING	RENTAL	84.84	1	84.84	0		84.84	F	0.00	
52770-	15	1/05/88	PATENT SCAFFOLDING	RENTAL	1,526.80	1	3,047.77	0		3,047.77	A	0.00	
52771-	15	1/07/88	PATENT SCAFFOLDING	RENTAL	3,002.00	1	6,041.61	0		6,041.61	F	0.00	
54414-	10	2/22/88	PETERSON INDUSTRIA	FLEX HOSE	252.61	64	252.61	64	F	252.61	F	0.00	
52716-	10	1/18/88	PLATT ELECTRIC SUP	CNNCTRS-STRAIN	441.09	227	441.09	227	F	441.09	F	0.00	
53985-	10	2/10/88	PLATT ELECTRIC SUP	TAPE	157.80	12	157.80	12	F	157.80	F	0.00	
52353-	10	1/13/88	PLYMART INC.	PLYWOOD	1,060.00	80	1,060.00	80	F	1,060.00	F	0.00	
51736-	18	1/11/88	PONY EXPRESS MAINT	SERVICES	700.00	1	613.25	0		613.25	F	0.00	
53230-	10	2/01/88	J. CARL POPE	SPIR. PIPE & FTG	533.96	102	533.96	102	F	533.96	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
53773-	10	2/03/88	POPE RIGGING LOFT,	WIRE ROPE	863.88	5	863.62	5	F	863.62	F	0.00	
54514-	10	2/24/88	POPE RIGGING LOFT,	SLEEVES	56.25	100	72.75	100	F	72.75	A	0.00	
52973-	10	1/15/88	PORT PLASTICS, INC	MICARTA	410.00	1	409.92	1	F	409.92	F	0.00	
51731-	19	1/11/88	PORT OF PORTLAND	DRY DOCK	51,313.00	1	72,887.32	0		72,887.32	F	0.00	
52147-	10	1/13/88	PORTLAND ELECTRIC	BREAKERS	2,361.00	28	2,361.00	28	F	2,361.00	F	0.00	
52792-	10	1/27/88	PORTLAND ELECTRIC	CIRCUIT BREAKER	167.40	3	167.40	3	F	167.40	F	0.00	
52331-	10	1/13/88	PORTLAND MACHINERY	LATHE	15,860.50	8	25,516.16	8	F	25,516.16	A	0.00	
53099-	10	1/19/88	PORTLAND RENDERING	TALLOW	300.00	3	300.00	3	F	300.00	F	0.00	
51918-	10	1/07/88	PORTLAND SCREW COM	SCREWS	377.40	16,000	377.40	16,000	F	377.40	F	0.00	
53032-	10	1/20/88	PORTLAND SCREW COM	1" NUTS	102.60	30	102.60	30	F	102.60	F	0.00	
53303-	10	1/29/88	PORTLAND SCREW COM	SCREWS	849.00	30,001	928.80	32,001	F	928.80	F	0.00	
52653-	15	1/13/88	PLTD, TYPEWRITER &	RENTAL	140.00	2	270.00	0		270.00	F	0.00	
52554-	10	1/08/88	PORTLAND VALVE & F	FITTINGS	195.20	42	195.20	42	F	195.20	F	0.00	
52995-	10	1/18/88	PORTLAND VALVE & F	FITTINGS	49.00	2	49.00	2	F	49.00	F	0.00	
53179-	10	1/21/88	PORTLAND VALVE & F	FITTINGS	216.80	17	216.80	17	F	216.80	F	0.00	
53564-	10	1/29/88	PORTLAND VALVE & F	FITTINGS	158.70	46	158.70	46	F	158.70	F	0.00	
53573-	10	1/29/88	PORTLAND VALVE & F	FITTINGS	126.60	8	126.60	8	F	126.60	F	0.00	
53838-	10	2/08/88	PORTLAND VALVE & F	FITTINGS	53.30	4	53.30	4	F	53.30	F	0.00	
54350-	10	2/18/88	PORTLAND VALVE & F	FITTINGS	63.00	30	63.00	30	F	63.00	F	0.00	
54404-	10	2/19/88	PORTLAND VALVE & F	FITTINGS	103.50	30	103.50	30	F	103.50	F	0.00	
54480-	10	2/22/88	PORTLAND VALVE & F	FITTINGS	109.51	16	109.51	16	F	109.51	F	0.00	
54486-	10	2/22/88	PORTLAND VALVE & F	FITTINGS	56.90	4	56.90	4	F	56.90	F	0.00	
54724-	10	2/26/88	PORTLAND VALVE & F	TUBING	368.50	224	368.50	224	F	368.50	F	0.00	
53542-	15	1/28/88	POWER RENTS	RENTAL	160.00	6	206.00	0		206.00	F	0.00	
51799-	18	12/11/87	PRECISION EQUIPMEN	SERVICES	1,770.00	1	0.00	0		0.00	F	0.00	
52968-	10	1/16/88	PRIESTLEY OIL & CH	OIL	753.60	2	753.60	2	F	753.60	F	0.00	
53154-	10	1/22/88	PRIESTLEY OIL & CH	GEAR LUBE	9.58	10	114.96	10	F	114.96	F	0.00	
53273-	10	1/27/88	PRIESTLEY OIL & CH	HYD OIL	325.60	110	325.60	110	F	325.60	F	0.00	
53504-	10	1/29/88	PRIESTLEY OIL & CH	OIL	182.80	2	162.80	2	F	162.80	F	0.00	
52485-	10	1/12/88	PRODUCTION SUPPLY	ALUM SHAPES	1,688.45	131	1,688.45	131	F	1,688.45	F	0.00	
52991-	10	1/20/88	PRODUCTION SUPPLY	ALUM TUBING	618.84	18	657.94	18	F	657.94	A	0.00	
51327-	18	1/08/88	PROGRESS ELECTRONI	TECH. SERVICES	2,500.00	1	2,500.00	0		2,500.00	F	0.00	
54650-	18	3/04/88	PROGRESS ELECTRONI	TECH. SERVICES	3,822.00	1	3,822.00	0		3,822.00	F	0.00	
52258-	18	1/08/88	PROPULSION CONTROL	SERVICE	35,331.00	1	35,427.13	0		35,427.13	F	0.00	
52258-01	18	3/21/88	PROPULSION CONTROL	SERVICE	2,000.00	1	2,000.00	0		2,000.00	F	0.00	
52943-	10	1/29/88	PRO SERVICE INC.	FLEX CONNECTION	604.40	3	543.65	3	F	543.65	F	0.00	
54150-	10	2/12/88	PRO SERVICE INC.	SEAL	117.20	2	117.20	2	F	117.20	F	0.00	
54607-	10	3/04/88	PYRAMID ELECTRONIC	CONNECTOR	1,565.60	20	1,580.10	20	F	1,580.10	F	0.00	
52072-	18	1/08/88	PUMPS FOR IND REPA	TECH SVCS.	24,000.00	1	24,000.00	0		24,000.00	F	0.00	
52427-	10	1/29/88	PUMPS FOR IND REPA	HEATER	397.00	1	0.00	0		0.00	F	0.00	
52427-01	10	2/01/88	PUMPS FOR IND REPA	HEATER	397.00-	1-	0.00	0	F	0.00	F	0.00	
53238-	10	1/27/88	QUIMBY WELDING SUP	ARGON BH	109.50	1	219.00	1	F	219.00	A	0.00	
53432-	10	2/08/88	RELIANCE ELECTRIC	SVCS-BALANCING	400.00	2	400.00	0		400.00	F	0.00	
53548-	10	2/01/88	RODDA PAINT COMPAN	PAINT	123.50	10	123.50	10	F	123.50	F	0.00	
53814-	10	2/08/88	RODDA PAINT COMPAN	CAULKING	76.44	36	87.24	36	F	87.24	F	0.00	
53955-	10	2/12/88	ROSE CITY AWNING C	TARP	187.20	2	187.20	2	F	187.20	F	0.00	
52261-	10	1/11/87	ROY MFG. COMPANY	SERVICES	864.00	180	864.00	180	F	864.00	F	0.00	
53227-	10	1/25/88	ROY MFG. COMPANY	PERFORATED SHEET	1,560.00	15	1,560.00	15	F	1,560.00	F	0.00	
51667-	18	1/11/88	SANDERSON SAFETY S	EXTINGUISHERS	5,210.00	3	6,180.12	0		6,180.12	F	0.00	
52232-	10	12/28/87	SANDERSON SAFETY S	HARD HAT	154.80	15	154.80	15	F	154.80	F	0.00	
54490-	18	2/22/88	SANDERSON SAFETY S	SERVICE	3,950.00	6	3,899.88	3	P	3,899.88	F	0.00	
54076-	10	2/23/88	SCALER SALES	THERMOMETER	68.80	4	68.80	4	F	68.80	F	0.00	
53023-	10	1/20/88	SCHUCKS AUTO PARTS	OIL	93.84	32	93.84	32	F	93.84	F	0.00	
53686-	60	2/04/88	SEA-LAND INDUSTRIE	MATERIALS	4,809.40	102	4,809.40	102	F	4,809.40	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
52311-	10	1/06/88	SEAPORT PETROLEUM	FLOAT COAT	541.22	2	591.22	2	F	591.22	F	0.00	
52880-	10	1/13/88	SEAPORT PETROLEUM	OIL	168.77	35	168.77	0		168.77	F	0.00	
53796-	10	2/09/88	SEAPORT PETROLEUM	OIL	593.24	3	633.20	3	F	633.20	F	0.00	
52234-	10	1/06/88	SEARS ROEBUCK & CO	REFRIGERATORS	425.00	4	425.00	4	F	425.00	F	0.00	
53791-	10	2/08/88	SHOP SERVICES INC.	PARTS	840.00	4	210.00	4	F	210.00	F	0.00	
54281-	10	2/11/88	SHOP SERVICES INC.	OVERHAUL	840.00	1	840.00	0		840.00	F	0.00	
52589-	15	1/14/88	SHUMAN EQUIPMENT C	RENTAL	2,100.00	12	2,100.00	0		2,100.00	F	0.00	
52927-	15	1/15/88	SHUMAN EQUIPMENT C	RENTAL	2,250.00	6	2,250.00	6	F	2,250.00	F	0.00	
51968-	10	12/21/87	SKYMAR	ANTENNA	410.55	3	410.55	3	F	410.55	F	0.00	
51812-	10	2/05/87	THE SMYTHE CO.	BRAKE PARTS	8,412.72	12	1,442.00	0	P	1,442.00	F	0.00	
53668-	18	2/12/88	SPRAYFOAM, INC	SERVICES	1,300.00	1	1,300.00	0		1,300.00	F	0.00	
54871-	10	3/03/88	SPRAYFOAM, INC	SVC-FOAM REPAIR	371.00	2	371.00	0		371.00	F	0.00	
52254-	10	12/23/87	STANDARD SUPPLY	FIXTURES	487.98	6	487.88	6	F	487.88	F	0.00	
53157-	10	1/25/88	STEAM SUPPLY & RUB	REPAIRS	2,080.00	4	2,080.00	3	P	2,080.00	F	0.00	
53946-	10	2/12/88	STUD WELDING PRODU	STUDS	850.36	10,202	1,324.98	11,102	F	1,324.98	A	0.00	
52783-	15	1/21/88	STUD WELDING SUPPL	RENTAL	473.00	3	473.00	0		473.00	F	0.00	
52791-	15	1/25/88	STUD WELDING SUPPL	RENTAL	473.00	3	473.00	3	F	473.00	F	0.00	
53046-	10	1/20/88	STUD WELDING SUPPL	ANCHOR BOLTS	168.72	1,201	171.22	1,201	F	171.22	F	0.00	
53315-	10	1/29/88	STUD WELDING SUPPL	ANCHOR BOLTS	57.50	500	78.90	500	F	78.90	F	0.00	
51618-	18	2/20/88	SYSTEMS ENGINEERIN	TECH REP	5,682.83	1	5,682.83	0		5,682.83	F	0.00	
54169-	10	2/12/88	TAP PLASTICS INC.	CLEAR LEXAN	299.52	2	299.52	2	F	299.52	F	0.00	
53704-	10	2/04/88	TEMP-CONTROL CORP.	SPIRAL PIPE	108.00	120	176.00	120	F	176.00	F	0.00	
52223-	10	12/29/87	TOTAL OFFICE PROD.	OFFICE EQUIP.	208.00	2	208.00	0		208.00	F	0.00	
52282-	10	12/22/87	TOTAL OFFICE PROD.	SUPPLIES	153.95	2	153.95	0		153.95	F	0.00	
52921-	10	1/22/88	TOTAL OFFICE PROD.	DRAFTING TABLE	169.00	1	169.00	1	F	169.00	F	0.00	
54754-	10	3/01/88	TOTAL OFFICE PROD.	STL. DESK	212.00	1	212.00	1	F	212.00	F	0.00	
52080-	10	1/01/88	USG INTERIORS	JOINTER PANELS	47,754.00	393	48,159.85	386	P	48,159.85	A	0.00	
52788-	10	2/05/88	USG INTERIORS	JOINER PANELS	3,160.00	20	3,535.96	20	F	3,535.96	A	0.00	
53401-	10	2/11/88	UNIDYNAMICS/PHOENI	TECH. SVCS	9,000.00	2	0.00	0		0.00	F	0.00	
53694-	10	2/16/88	UNIT PROCESS CO.	PARTS	168.00	2	169.80	2	P	169.80	F	0.00	
51800-	18	12/11/87	UNIVERSAL HYDRAULI	SERVICES	4,669.00	1	4,669.00	0		4,669.00	F	0.00	
52633-	18	1/20/88	UNIVERSAL HYDRAULI	SERVICES	3,400.00	17	3,910.00	0		3,910.00	F	0.00	
54139-	10	2/12/88	UNIVERSAL HYDRAULI	RECHARGE SYSTEM	100.00	1	100.00	0		100.00	F	0.00	
54291-	10	2/17/88	UNIVERSAL HYDRAULI	PARTS	2,381.00	1	2,381.00	0		2,381.00	F	0.00	
54292-	10	2/17/88	UNIVERSAL HYDRAULI	COMPONENTS	28,174.00	1	28,194.00	0		28,194.00	F	0.00	
54695-	10	2/26/88	UNIVERSAL HYDRAULI	ANCHOR WINDLASS	280.00	1	280.00	0		280.00	F	0.00	
54696-	10	2/26/88	UNIVERSAL HYDRAULI	LEAK	105.00	1	100.00	0		100.00	F	0.00	
54994-	18	3/07/88	UNIVERSAL HYDRAULI	SVC-REPAIR DOOR	2,056.25	1	2,056.25	0		2,056.25	F	0.00	
51974-	10	12/23/87	U.S. GOVERNMENT BO	USCG MANUALS	154.00	1	154.00	0		154.00	F	0.00	
54153-	10	2/24/88	VAN WATERS & ROGER	OIL	564.10	1	564.10	1	F	564.10	F	0.00	
54153-01	10	2/12/88	VAN WATERS & ROGER	OIL	726.15	1	726.15	0		726.15	F	0.00	
53872-	10	2/10/88	VANCOUVER WELDING	ARGON	300.75	3	300.75	3	F	300.75	F	0.00	
52302-	10	1/16/88	W & O SUPPLY, INC.	VALVES	2,032.25	188	2,032.25	188	F	2,032.25	F	0.00	
52310-	10	1/06/88	W & O SUPPLY, INC.	VALVES	1,878.00	36	1,878.00	36	F	1,878.00	F	0.00	
52313-	10	1/06/88	W & O SUPPLY, INC.	VALVES	1,255.25	21	1,255.25	21	F	1,255.25	F	0.00	
52360-	10	1/06/88	W & O SUPPLY, INC.	SB FITTINGS	145.48	6	145.48	6	F	145.48	F	0.00	
52899-	10	1/13/88	W & O SUPPLY, INC.	FLANGES	560.00	16	560.00	16	F	560.00	F	0.00	
52986-	10	1/18/88	W & O SUPPLY, INC.	FITTINGS	104.00	4	104.00	4	F	104.00	F	0.00	
53319-	10	1/26/88	W & O SUPPLY, INC.	BELL REDUCERS	78.00	6	78.00	6	F	78.00	F	0.00	
53320-	10	1/26/88	W & O SUPPLY, INC.	VALVES	360.00	4	360.00	4	F	360.00	F	0.00	
53331-	10	1/27/88	W & O SUPPLY, INC.	GATE VALVE	125.00	1	125.00	1	F	125.00	F	0.00	
53337-	10	1/27/88	W & O SUPPLY, INC.	GATE VALVE	125.00	1	125.00	0		125.00	F	0.00	
53561-	10	1/29/88	W & O SUPPLY, INC.	VALVES	641.90	12	641.90	12	F	641.90	F	0.00	
53578-	10	1/29/88	W & O SUPPLY, INC.	COPPER PIPE	420.00	140	405.00	135	F	405.00	F	0.00	

****
STATUS: CLOSED SORTED BY VENDOR CODE
****

PO #	XCOD	NEED DATE	VENDOR	GEN DESC	P.O. $	P.O. QTY	COMMIT $	RCV QTY	S T	INVOICE $	S T	R.T.V. CREDIT $	S T
53645-	10	2/02/88	W & O SUPPLY, INC.	VALVES	278.00	6	278.00	6	F	278.00	F	0.00	
53744-	10	2/03/88	W & O SUPPLY, INC.	COPPER PIPE	192.00	40	192.00	40	F	192.00	F	0.00	
53829-	10	3/05/88	W & O SUPPLY, INC.	PIPE	240.00	80	240.00	80	F	240.00	F	0.00	
54346-	10	2/18/88	W & O SUPPLY, INC.	VALVE	265.00	1	264.00	1	F	264.00	F	0.00	
54349-	10	2/18/88	W & O SUPPLY, INC.	VALVES	236.40	8	236.40	0		236.40	F	0.00	
51662-	10	1/12/88	WASHINGTON ALUMINU	ALUM GRATING	85,468.00	10,800	24,940.00	10,000	P	24,940.00	F	0.00	
51662-01	10	1/29/88	WASHINGTON ALUMINU	AMENDMENT	48,555.20-	660-	11,972.80	140	F	11,972.80	F	0.00	
53951-	10	2/16/88	WATERCRAFT SERVICE	W.T. LOCKER DOOR	403.04	22	403.04	22	F	403.04	F	0.00	
51328-	18	1/08/88	WESTCON, INC.	TECH. SERVICES	2,060.00	35	1,892.55	0		1,892.55	A	0.00	
54584-	10	3/01/88	WESTCON, INC.	MULTI-METER	220.00	3	229.00	3	F	229.00	A	0.00	
54643-	10	3/04/88	WESTCON, INC.	MULTIMETER	220.00	3	236.00	3	F	236.00	F	0.00	
52480-	10	1/12/88	WESTERN FLUID POWE	VALVE/PARTS	328.88	6	328.88	6	F	328.88	F	0.00	
53079-	10	1/18/88	WILHELM TRUCKING C	SERVICE	603.70	1	603.70	0		603.70	F	0.00	
51733-	18	1/11/88	WILLAMETTE TUG & B	TUG SERVICES	2,000.00	1	3,874.50	0		3,874.50	F	0.00	
53107-	18	1/21/88	WILLAMETTE TUG & B	TUG SERVICE	2,000.00	1	3,514.50	0		3,514.50	F	0.00	
51959-	10	1/18/88	WING CORPORATION	ELEMENT ASSEMBLY	175.40	5	170.56	5	F	170.56	F	0.00	
51199-	10	1/12/88	YELLOW FORWARDING	SHIPPING	300.00	1	192.60	0		192.60	F	0.00	
52898-	28	1/14/88	YELLOW FORWARDING	SHIPPING	143.84	1	143.84	0		143.84	F	0.00	
53089-	28	1/19/88	YELLOW FORWARDING	SHIPPING	64.31	1	39.87	0		39.87	F	0.00	
55138-	28	3/07/88	YELLOW FORWARDING	SHIPPING	34.00	1	36.25	0		36.25	F	0.00	
51553-	80	12/07/87	TELEPHONE	TELEPHONES	1,500.00	1	5,151.53	0		5,151.53	A	0.00	
561	CLOSED P.O.'S		STATUS CLOSED	TOTALS:	1,402,728.17	161,842	1,444,291.32	163,301		1,444,291.32		0.00	
671	P.O.'S FOR JOB			JOB TOTALS:	2,209,249.72	187,495	2,330,890.86	188,096		2,096,010.33		0.00	

NWMAR125964

VENDOR

PACIFIC OFFICE AUTOMATION 58687 (1)
14335 N.W. SCIENCE PARK DR
PORTLAND, OR 97229

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY/MIGAS	20

DATE 4/18/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 4/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
003	0002	1	LOT		COPY MACHINE CHARGES: THIS AMENDMENT IS ISSUED TO FINAL THIS PURCHASE ORDER AS OF 03/05/88. CHARGES FOR COPY MACHINE TO BE TRANSFERRED TO P.O. #56584, JOB 3298.	0.0000		0.00
		CONFIRMED LIZ			(503) 641-2000 RENTAL			0.00

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 94420
EXPENSE CODE ▶ 15

PURCHASE ORDER
NO. ▶ 52340 -01
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125965

VENDOR

PROPULSION CONTROLS ENG. 63806 (1)
P.O. BOX 13606
SAN DIEGO, CA 92113-0606

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	18

DATE 3/21/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/21/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
002	0207	1	LOT		VENS OBSERVATION ISLAND PROVIDE ADDITIONAL PARTS PER PCE IDR 4079-1	2,000.00		2,000.00
					CONFIRMED (619) 235-0961 SERVICE PAGE 1			2,000.00

NORTHWEST MARINE IRON WORKS

BY R. HUGET
BUYER AUTHORIZATION

NORTHWEST MARINE IRON WORKS
BY R.W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89891
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 52238 -01
SHOW THIS NUMBER ON INVOICE

COST

NWMAR125966

VENDOR

YELLOW FORWARDING CO. 86839 (1)
DEPT. #13457
LOS ANGELES, CA 90088

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	15

DATE 4/04/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 4/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0727	1	LOT		FREIGHT TO BE SHIPPED TO: JAMESTOWN METAL MARINE SALES, INC 19 JONES & GIDDORD AVE. BLDG #17 JAMESTOWN N.Y 14701 CONTRACT #87-4760	80.0000		80.00

4/29 Comp 86.87

NORTHWEST MARINE
IRON WORKS

CONFIRMED ( ) - 80.00

SHIPPING

PAGE 1

NORTHWEST MARINE IRON WORKS

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90730
EXPENSE CODE ▶ 28

PURCHASE ORDER
NO. ▶ 56414 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR125967

VENDOR

NORTHERN AIR FREIGHT
BOX 68728
SEATTLE, WA. 98168

55389 (J)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	15

DATE 3/22/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	07118	1	LOT		FREIGHT TO BE SHIPPED TO:		301.27	301.27
					USNS OBSERVATION ISLAND TAGM-23 NAVAL CONSTRUCTION BAT. CENTER DOCK#4 PORT HUENEME, CALIFORNIA 93043			

4/6 291.00

NORTHWEST MARINE IRON WORKS

CONFIRMED (503) 256-5204 SHIPPING 301.27

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 55880 –

SHOW THIS NUMBER ON INVOICE

JOB COST

BY TASHKANDY
BUYER AUTHORIZATION

BW. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90727
EXPENSE CODE ▶ 28

NWMAR125968

VENDOR

PORT OF PORTLAND
P.O. BOX 3529
PORTLAND, OR 97208

62270 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HOWELL	20

DATE 3/22/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0002	1	LOT		RENTAL OF 26,756 SQ. FT. OF WARE-HOUSE SPACE BLDG. 10 1/15/88 TO 3/15/88	12,307.36		12,307.36
002	0002	1	LOT		RENTAL OF 1950 SQ. FT. OF OFFICE SPACE BLDG. 10 12/01/88 TO 3/15/88.	3,412.50		3,412.50
					CONFIRMED JUDY (503) 231-5331			15,719.86

RENTAL

PAGE 1

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 55865 -

SHOW THIS NUMBER ON INVOICE

BY R. HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 86579
EXPENSE CODE ▶ 15

JOB COST

NWMAR125969

VENDOR

PARKER EMERSON & ASSOCIATES 60115 (1)
17935 CARDINAL DRIVE
LAKE OSWEGO, OR 97034

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY/STEVENS	20

DATE 3/11/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0739	1	LT		PROVIDE SERVICES TO SURVEY AND REPORT ON THE CORRECTIVE ACTION OF THE OCC AND ELECTRONIC ROOM AIR CONDITIONER SYSTEM.	1,500.00		1,500.00
					CONFIRMED (503) 638-7286			1,500.00

3/14/88 Chrp 1500.00

NORTHWEST MARINE IRON WORKS

SERVICES

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 55223 --

SHOW THIS NUMBER ON INVOICE

BY R. HUGET
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90052
EXPENSE CODE ▶ 18

JOB COST

NWMAR125970

VENDOR

OIL FIELD ELECTRIC 56545 (1)
1801 N VENTURA
VENTURA, CA 93001

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	20

DATE 3/08/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/08/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0323	1	LOT		PROVIDE SERVICE TO ATTEND THE VESSEL AT PORT HUENEME CALIF. AND REPAIR THE 40 HP VENT FAN MOTORS AS DIRECTED BY JON DONNER.		1,500.00	1,500.00

4/11/88 Part. 418.20
4/11/88 Comp 2076.00

NORTHWEST MARINE IRON WORKS

CONFIRMED STEVE SMITH (805) 485-1288 1,500.00
SERVICES
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO.▶ 55220 -
SHOW THIS NUMBER ON INVOICE

BY R. HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89890
EXPENSE CODE ▶ 18

JOB COST

NWMAR125971

VENDOR

NORTHERN AIR FREIGHT
BOX 68728
SEATTLE, WA. 98188

55389 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	15

DATE 3/07/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/07/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0003	1	LOT		FREIGHT TO BE SHIPPED TO:	48.0000		48.00
					JON DONNER CASA SIRENA MOTEL ROOM 2250 3605 PENINUSLA ROAD CHANNEL ISLAND HARBOR OXNARD, CALIFORNIA 93035			
					CONFIRMED (503) 256-5204			48.00

4/6 44.00

NORTHWEST MARINE IRON WORKS

SHIPPING

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 55201 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUBET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90720
EXPENSE CODE ▶ 28

JOB COST

NWMAR125972

VENDOR

YELLOW FORWARDING CO.
DEPT. #13457
LOS ANGELES, CA 90088

86839 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	15

DATE 3/07/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/07/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0003	1	LOT		FREIGHT TO BE SHIPPED TO:	34.0000		34.00
					MASTER OBSERVATION ISLAND NAVAL CONST. CENTER BAT. RECEIVING OFFICER BLDG. 510 PORT HUENEME, CALIFORNIA 93043			
		CONFIRMED			( ) - SHIPPING			34.00

3/15 Comp. 36.25

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 55138 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90715
EXPENSE CODE ▶ 28

JOB COST

NWMAR125973

VENDOR

JIGGS' FLOORS 41000 (1)
4835 N. ALBINA
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
R. COURY	09

DATE 3/09/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
003	0713	1	LT		REPLACE FLOOR IN TRAINING ROOM AS DIRECTED.	2,214.00		2,214.00
					PLEASE ADD THE FOLLOWING ITEM TO P.O. #55128			

NORTHWEST MARINE IRON WORKS

CONFIRMED WALKER (503) 249-5835

FLOORING

PAGE 1

3/22/88 2,214.00

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 55128 -01

SHOW THIS NUMBER ON INVOICE

JOB COST

BY TASHWANDY BUYER AUTHORIZATION

BY R. W. HUGET, JR. PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89964
EXPENSE CODE ▶ 19

NWMAR125974

VENDOR

JIGGS' FLOORS
4835 N. ALBINA
PORTLAND, OR 97217

41000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
R. COURY	09

DATE 3/07/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0731A	1	LOT		INSTALL UNDERLAYMENT AND MATTING AS DIRECTED	3,542.00		3,542.00
002	0739	1	LOT		INSTALL UNDERLAYMENT, MATTING AND DO PATCHING AS DIRECTED	2,836.00		2,836.00

NORTHWEST MARINE IRON WORKS

CONFIRMED WALKER (503) 249-5835

UNDERLAYMENT
PAGE 1

3/22/88

6,378.00

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 55128 -

SHOW THIS NUMBER ON INVOICE

JOB COST

BY TABMANY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73252
EXPENSE CODE ▶ 10

NWMAR125975

VENDOR

MAR-DUSTRIAL SALES, INC. 47820 (1)
4365 N. LAGOON
PORTLAND, OR 97217

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
HALL/VP	11

DATE	3/04/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0003	12	EA.		RING NUTS, 3/4" ACME THREAD, NAVAL BRONZE	18.6000		223.20
002	0003	6	EA.		DOG BOLTS W/NUTS, 3/4" BRZ	42.6000		255.60
					CONFIRMED CRAIG (503) 285-4541 DOG BOLTS/NUTS PAGE 1		3/22	478.80

*****

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91336
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 55002 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125976

VENDOR

UNIVERSAL HYDRAULIC SERVICE 80284 (3)
P.O. BOX 25720
PORTLAND, OR 97225

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
KINGREY/MILLER	14

DATE	3/07/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	3/07/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0104A	1	LT		PROVIDE SERVICE TO DETERMINE THE MALFUNCTION OF THE HYDRAULIC WATERTIGHT DOOR.	2,056.25		2,056.25

NORTHWEST MARINE IRON WORKS

CONFIRMED BARBARA (503) 626-4242

SVC-REPAIR DOOR
PAGE 1

3/22 2,056.25

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54994 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89888
EXPENSE CODE ▶ 18

JOB COST

NWMAR125977

***** BODY ADDED *****

VENDOR

CONSTRUCTION SERVICE CO. 18709 (1)
1300 POWELL STREET
EMERYVILLE, CALIF 94608

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	01

DATE 2/29/88
TERMS NET30
F.O.B. ORIGIN
SHIP VIA UPS RED
DUE DATE 3/01/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
002	0415E	2	EA		RELIEF CARTRIDGES #390-1050	207.12		414.24
003	0415E	1	LOT		INBOUND FREIGHT	12.5000		12.50

CONFIRMED (415) 652-6800 426.74

RELIEF CARTRIDGE
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89885
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54950 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125978

VENDOR

MAR-DUSTRIAL SALES, INC. 47820 (1)
4865 N. LAGOON
PORTLAND, OR 97217

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
HALL	11

DATE	3/03/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	5	EA.		RING NUT 3/4 " ACME THREAD NAVAL BRONZE ROUND EYE TYPE	18.6000		93.00

CONFIRMED CRAIG (503) 285-4541 RING NUTS 3/22 93.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54946 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90823
EXPENSE CODE ▶ 10

JOB COST

NWMAR125979

VENDOR

BERGMAN PHOTOGRAPHIC SERVICES 09015 (1)
7816 S.E. 13TH AVE.
PORTLAND, OREGON 97202

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	20

DATE 3/04/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/05/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0003B	1	LOT		PROVIDE SERVICES TO TAKE AERIAL PHOTOGRAPHS OF THE VESSEL PER YOUR QUOTE DATED 02/22/88.	1,267.00		1,267.00

5/11 Part. 100.00
5/11 Comp 901.50

NORTHWEST MARINE IRON WORKS

CONFIRMED BRUCE (503) 239-6010 1,267.00

PHOTO SERVICES
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54891 -

SHOW THIS NUMBER ON INVOICE

BY R. HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87887
EXPENSE CODE ▶ 18

JOB COST

NWMAR125980

VENDOR

AMERICAN STEEL
4033 N.W. YEON
PORTLAND, OR 97210

04470 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BO	02

DATE 3/03/88
TERMS 1/2%10
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0739	5	SHT		GALV STL, 16 GA, 48" X 120"	39.1700		195.85
					W/C WITH PO 54875,76			

3/14/88 Comp 1% 20

NORTHWEST MARINE IRON WORKS

CONFIRMED BILL ADAMS (503) 226-1511 195.85

GALV STL SHT
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80290
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54874 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125981

VENDOR

SPRAYFOAM, INC
37545 CENTURY DRIVE, NE
ALBANY, OREGON 97321

72113 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW	06

DATE 3/02/88
TERMS BELOW
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
004	0715	1	LT		FOAM REPAIR ON TURRET	260.00		260.00
005	0715	1	LT		ADDITIONAL MATERIAL REQUIRED (89 SF) BILL N30	111.25		111.25
					NOTE 1: 260.00 PAID BY CHECK 03/02/88; VENDOR TO BILL FOR ANY ADDITIONAL MATERIAL REQUIRED.			
					CONFIRMED JOYCE (503) 926-5678			371.25
					SERVICE FOAM REP			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

BY MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75270
EXPENSE CODE ▶ 18

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54671 -01

SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125982

VENDOR

SPRAYFOAM, INC
37345 CENTURY DRIVE, NE
ALBANY, OREGON 97321

72113 (1)

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
LANKOW	06

DATE	3/02/88
TERMS	NOTE 1
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0715	1	LT		FOAM REPAIR ON TURRET (ORIGINAL WORK PD BY CK 3-3-88)	260.00		260.00
002	0715	1	LT		ADDITIONAL MAT'L REQ'D (89 SF) (WILL BILL ON ADDITIONAL CHARGES)	111.00		111.00

4/5 Lump 111.00

NORTHWEST MARINE IRON WORKS

CONFIRMED JOYCE (503) 926-5678 371.00

SVC-FOAM REPAIR
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54871 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75270
EXPENSE CODE ▶ 10

JOB COST

NWMAR125983

VENDOR

HOBART SALES & SERVICE 36050 (1)
5759 S. E. INTNL. WAY
PORTLAND, OR 97222

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KUNKLE/VP	07

DATE 3/02/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-AS UNDER U.S. GOV'T PRIME CONTRACT N62383 88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350 MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	06260	1	LT		CONVERSION TO 440 VOLT BY HOBART TECHNICAL ASSISTANCE ON INSTALLATION OF HOBART MODEL #AM-14 DISHWASHER.	315.25		315.25
					CONFIRMED (503) 653-9950 SERVICE		3/22/88	315.25

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54855 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91309
EXPENSE CODE ▶ 18

JOB COST

NWMAR125984

VENDOR

OIL FILTER SERVICE CO.
615 SE MARKET ST.
PORTLAND, OR 97214

56360 (1)

JOB NUMBER ▶ 3231

ORDERED FOR	CRAFT
HARGUTH/VP	07

DATE	5/04/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	5/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
002	06098	2	EA		HOSE ASSY. C042EEE7911CF	33.8800		67.76
					NOTE: MATERIAL LEFT OFF ORIGINAL PURCHASE ORDER.			

NORTHWEST MARINE IRON WORKS

CONFIRMED DAVE (503) 232-5126

HOSE ASSY. 5/23 67.76

PAGE 1

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER

AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT

AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 94152
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54653 -01
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR125985

VENDOR

OIL FILTER SERVICE CO.
615 SE MARKET ST.
PORTLAND, OR 97214

56560 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HARGUTH	07

DATE	3/01/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	3/01/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0609B	2	EA		HOSE ASSEMBLIES 1/4" X 20' LONG OF-0633FFF3811GF	82.0800		164.16

NORTHWEST MARINE IRON WORKS

CONFIRMED DAVE (503) 232-5126 HOSE ASSY 3/22 164.16

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54853 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91753
EXPENSE CODE ▶ 10

JOB COST

NWMAR125986

VENDOR

J & F INDUSTRIES, INC.
2200 S.E. MAILWELL DR.
PORTLAND, OR 97222

40220 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KUNKLE	07

DATE 3/01/88
TERMS NET 30
F.O.B. OHIO
SHIP VIA AIR FREIG
DUE DATE 3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62393 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0626C	1	EA		HOBART DISHWASHER MODEL #AM-14, 240V, 3 PHASE TO BE CONVERTED TO 440V.	3,995.00		3,995.00
002	0626C	1	LT		INBOUND AIR FREIGHT ON APPX 450#		500.00	500.00

5/11 Comp 4272.20

NORTHWEST MARINE IRON WORKS

CONFIRMED KEN (503) 659-8121 4,495.00

DISHWASHER

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54842 -

SHOW THIS NUMBER ON INVOICE

JOB COST

BY VANCE
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91307
EXPENSE CODE ▶ 10

NWMAR125987

VENDOR

PACIFIC OFFICE AUTOMATION 58687 (1)
14335 N.W. SCIENCE PARK DR
PORTLAND, OR 97229

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
JULIE	24

DATE 3/02/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					REPAIR ON RENTAL COPY MACHINE BLDG. 10 FOR O.I. REPS			
001	0002	1	EA		DEVELOPER	29.9500		29.95
002	0002	1	EA		FUSER CLEANER KIT	16.4000		16.40
					CONFIRMED KATHY (503) 641-2000		3/22	46.35
					RAPAIR			
					PAGE 1			*****

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY TASHMANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89956
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54838 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125988

VENDOR

HIGH REACH, INC.
4200 N.W. YEON
PORTLAND, OR 97210

35813 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
R. COURY	09

DATE 3/02/88
TERMS
F.O.B.
SHIP VIA DEL
DUE DATE 3/02/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0715	1	EA		(40 FT) JLG HIGH LIFT RENTAL APPROX. 2 DAYS		400.00	400.00
					DEL TO BERTH 304 OBSERVATION ISLAND			
					CONFIRMED ED WESTERDAHL (503) 224-2000			400.00
					RENTAL			

3/22 626.95

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54837 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73244
EXPENSE CODE ▶ 15

JOB COST

NWMAR125989

VENDOR

HENDREN MARINE & TUG 35489 (1)
12751 N.W. SPRINGVILLE RD.
PORTLAND, OREGON 97229

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
KELLEY	17

DATE 2/25/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/25/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0002	1	LOT		100 FT OF BREAST-OUT LOGS TO BREAST OUT VESSEL FOR DURATION OF CONTRACT.	505.00		505.00

NORTHWEST MARINE IRON WORKS

CONFIRMED LEE (503) 285-5679 4/5 505.00

LOGS

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54834 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 83896
EXPENSE CODE ▶ 10

JOB COST

NWMAR125990

VENDOR

BLACK BALL MARINE 09675 (1)
5128 N. ALBINA
PORTLAND, OREGON 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
	09

DATE 3/01/88
TERMS
F.O.B.
SHIP VIA DEL.
DUE DATE 3/01/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0117	20	GAL		INTERNATIONAL INTERVINCEX WHITE	21.4700		429.40
		CONFIRMED NIKE			( ) 288-5159 PAINT		3/22	429.40

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54806 -

SHOW THIS NUMBER ON INVOICE

BY B. FAZAL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 72601
EXPENSE CODE ▶ 10

JOB COST

NWMAR125991

VENDOR

CONSOLIDATED SUPPLY
P.O. BOX 5788
PORTLAND OREGON 97228

18490 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HARGUTH	07

DATE 2/29/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/29/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	4	EA		SHOWER HEAD 3915 A SHOWER H. A. F. MOEN FLO.	20.2500		81.00
		CONFIRMED SUE			(503) 620-7050		3/7	81.00
					SHOWER HEADS PAGE 1			

*****

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91737
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54769 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125992

VENDOR

TOTAL OFFICE PROD. & PRINTERS 78250 (2)
3461 N W YEON
PORTLAND, OR 97210

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
DAHLEN	06

DATE	2/29/88
TERMS	N10TH
F.O.B.	ORIGIN
SHIP VIA	WILL CALL
DUE DATE	3/01/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0767	1	EA		STEEL DESK, 30" X 48", BLK WALNUT	212.00		212.00

NORTHWEST MARINE IRON WORKS

CONFIRMED PAUL ZIMMERMAN (503) 228-2395

STL. DESK

PAGE 1

3/7

212.00

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54734 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91296
EXPENSE CODE ▶ 10

JOB COST

NWMAR125993

VENDOR

E. J. BARTELLS CO.
P.O. BOX 1971
SEATTLE, WA 98111

08010 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW	06

DATE 2/29/88
TERMS NET 30
F.O.B. OR-PPD
SHIP VIA VIKING
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					"THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0739F	1000	SF		INSULATION, 1" FACED F/O PER CG 164.009,KWS NB1	0.7800		780.00
002	0739F	1	LT		FREIGHT (FOB LIVERMORE, CA)		100.00	100.00
		CONFIRMED GINA			(503) 228-9367 FACED HULL BD PAGE 1			880.00

3/22 11214

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91294
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54753 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125994

VENDOR

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

17260 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW	06

DATE 2/29/88
TERMS NET 30
F.O.B. DEST.
SHIP VIA VENDOR
DUE DATE 3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0739F	20	GAL		ADHESIVE 85/20	18.2500		365.00
002	0739F	30	GAL		ADHESIVE ARABOL	9.0000		270.00
003	0739F	900	SF		CLOTH, RED 803 750 DELIV 3/1, BAL 3/4.	0.3200		288.00
004	0739F	400	SF		CLOTH, RED 17 OZ.	0.6100		244.00

3/7 part. 1048.85
3/22 Comp 118.15

NORTHWEST MARINE IRON WORKS

CONFIRMED PAT (503) 284-9395 1,167.00

MISC. INS.

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54752 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75250
EXPENSE CODE ▶ 10

JOB COST

NWMAR125995

VENDOR

IRC ALUMINUM & STAINLESS 37686 (1)
2130 N.W. YORK
PORTLAND, OR. 97210

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BO	02

DATE 2/26/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/29/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0718F	175	LF		3/16 X 1-1/2 X 1-1/2 ALUM ANGLE 6061 (SEVEN 25' LENGTHS)	1.3900		243.25
							3/22 243.81	
		CONFIRMED KEN			(503) 228-7110			243.25
					AL ANGLE			
					PAGE 1			
								*****

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91293
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54750 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR125996

VENDOR

PARAMOUNT SUPPLY CO. 60000 (1)
P.O. BOX 14096
PORTLAND, OR 97214

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BENNETT	07

DATE 2/26/88
TERMS NET 25
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0011	18	EA		3/4" 600# S.W. FLANGES	12.2500		220.50

NORTHWEST MARINE IRON WORKS

CONFIRMED MIKE (503) 232-4137 3/22 220.50

FLANGES

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54731 -

SHOW THIS NUMBER ON INVOICE

BY VANCE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91198
EXPENSE CODE ▶ 10

JOB COST

NWMAR125997

VENDOR

PORTLAND VALVE & FITTING CO. 62700 (1)
P.O. BOX 12152
PORTLAND, OR 97212

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MCKAY	07

DATE 2/26/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0609B	200	LF		1/4" 316 S.S. TUBING .035 WALL	0.8000		160.00
002	0609B	10	EA		SWAGLOCK CONNECTORS, 1/4" UNION TYPE SS-400-6	7.1500		71.50
003	0609B	10	EA		SWAGLOCK BLKHD UNION SS-400-61	11.8000		118.00
004	0609B	4	EA		SWAGLOCK MALE CONNECTOR 1/4" WPT X 1/4" TUPE SS-400-1-4	4.7500		19.00
		CONFIRMED SUZANNE			(503) 288-6901			368.50

3/7 Part 160.00
3/7 Comp. 208.50

NORTHWEST MARINE IRON WORKS

TUBING

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54724 -

SHOW THIS NUMBER ON INVOICE

BY VANCE
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90905
EXPENSE CODE ▶ 10

JOB COST

NWMAR125998

VENDOR

CONSOLIDATED SUPPLY
P.O. BOX 5788
PORTLAND OREGON 97228

18490 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/26/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DFAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	1	EA		WATER CLOSET FLUSH VALVE SLOANE #1 #110-3	59.9400		59.94
					CONFIRMED SUB (503) 620-7050			59.94
					FLUSH VALVE			
					PAGE 1			

3/7 Comp 59.94

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54722 -

SHOW THIS NUMBER ON INVOICE

BY VANCE — BUYER — AP AUTHORIZATION

BY R. W. HUGET, JR. — PURCHASING AGENT — AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91720
EXPENSE CODE ▶ 10

JOB COST

NWMAR125999

VENDOR

KEN R. HUMKE 37220 (1)
P.O. BOX 5128
PORTLAND, OR 97208

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NUTTER	02

DATE 2/23/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/25/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0757	10	EA		RECESSEA "D" RINGS #172 EBERHARD	7.2400		72.40

NORTHWEST MARINE IRON WORKS

CONFIRMED LEROY (503) 222-9741 "D" RINGS 3/7 72.40

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54712 -

SHOW THIS NUMBER ON JOB COST

BY VANCE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90814
EXPENSE CODE ▶ 10

NWMAR126000

VENDOR

UNIVERSAL HYDRAULIC SERVICE 80286 (4)
10950 S.W. 5TH, SUITE 350
BEAVERTON, OR 97005

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/26/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0608A	1	LOT		ACCUMALTOR FIX LEAKING LINE & RECHARGE 1 MAN 3 HRS.	105.00		105.00
					CONFIRMED DAN ( ) - LEAK			105.00

3/7/88 Dmp 100.00

NORTHWEST MARINE IRON WORKS

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54696 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90648
EXPENSE CODE ▶ 10

JOB COST

NWMAR126001

VENDOR

UNIVERSAL HYDRAULIC SERVICE 80286 (4)
10950 S.W. 5TH, SUITE 350
BEAVERTON, OR 97005

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
MILLER	14

DATE	2/26/88
TERMS	NET 30
F.O.B.	SHOP
SHIP VIA	DEL
DUE DATE	2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0519	1	LOT		MAN 8 HRS HELP BLEED SYSTEM ON ANCHOR WINDLASS PARA 7.3.10.1	280.00		280.00

NORTHWEST MARINE IRON WORKS

CONFIRMED DAN ( ) - ANCHOR WINDLASS
PAGE 1

3/7

280.00

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54695 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90647
EXPENSE CODE ▶ 10

JOB COST

NWMAR126002

VENDOR

FINZER BUSINESS SYS. INC 28574 (1)
16165 S.W. 72ND AVE
PORTLAND OR 97224

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
LARRY	20

DATE 2/26/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0002	1	LOT		REPAIR ON COPY MACHINE FOR MSC OFFICE.	143.00		143.00

NORTHWEST MARINE IRON WORKS

CONFIRMED (503) 620-9887 REPAIR 3/16/88 143.00

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54661 -

SHOW THIS NUMBER ON INVOICE

BY TASHXANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91177
EXPENSE CODE ▶ 10

JOB COST

NWMAR126003

VENDOR

MARINE LAND SERVICES 48000 (1)
4040 S.E. 12TH CT.
GRESHAM OR 97080

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 3/04/88
TERMS NET 15
F.O.B. NET 15
SHIP VIA OUR PLANT
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0727	2	EA		HUMIDISTATS H600A1014	79.9300		159.86

NORTHWEST MARINE IRON WORKS

CONFIRMED DIANE (503) 289-2575 159.86
HUMIDISTATS
PAGE 1
*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO.▶ 54652 -
SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 92039
EXPENSE CODE ▶ 10

JOB COST

NWMAR126004

***** BODY ADDED *****

VENDOR

PROGRESS ELECTRONICS COMPANY 63790 (1)
2727 N E COLUMBIA BLVD
P. O. BOX 11008
PORTLAND, OREGON 97211

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	01

DATE 3/04/88
TERMS NET30
F.O.B. ORIGIN
SHIP VIA DELIVER
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0415E	1	LOT		PROVIDE SERVICES TO ACCOMPLISH ALL REPAIRS PER YOUR REPORT AND LETTER DATED 03/03/88 SER#5839-88 PERFORM ADDITIONAL CABLE TEST AND MTR BLANKER MODS	3,822.00		3,822.00

3/22 3822.00

NORTHWEST MARINE IRON WORKS

CONFIRMED GENE (503) 285-0581 TECH. SERVICES 3,822.00

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54650 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89886
EXPENSE CODE ▶ 18

JOB COST

NWMAR126005

VENDOR

MARINE LAND SERVICES 48000 (1)
4040 S.E. 12TH CT.
GRESHAM OR 97080

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
HAYWOOD	01

DATE	3/03/88
TERMS	NET15
F.O.B.	OUR PLANT
SHIP VIA	DELIVER
DUE DATE	3/03/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383 88-C-004. THE PROVISIONS OF DPAG REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0405	1	EA		CIRCUIT BREAKER 75 AQB-A100 AMP INSTATANEOUS TRIP	366.40		366.40
		CONFIRMED PETE			(503) 289-2575			366.40
					BREAKER			
					PAGE 1			

3/22 414.40

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 92116
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54646 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126006

VENDOR

WESTCON, INC.
5101 N. INTERSTATE
PORTLAND, OR 97217

83395 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 3/03/88
TERMS NET30
F.O.B. ORIGIN
SHIP VIA UPS RED
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0003	1	EA		FLUKE MULTIMETER MOD #8021B	179.00		179.00
002	0003	1	EA		TEST LEAD/SET TLS-2000	29.0000		29.00
003	0003	1	EA		CARRYING CASE MOD # C-90	12.0000		12.00

3/22 Comp 236.00

NORTHWEST MARINE IRON WORKS

CONFIRMED JAN (503) 283-0132 220.00

MULTIMETER

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54643 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 92120
EXPENSE CODE ▶ 10

JOB COST

NWMAR126007

***** BODY ADDED *****

VENDOR

HARDWARE SPECIALTY CO.
3419 - 11TH AVENUE, S.W.
SEATTLE, WA 98134

34890 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 3/03/88
TERMS NET
F.O.B. SEATTLE,
SHIP VIA UPS
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0301B	3	EA		GENERAL ALARM BELLS 8" 24 VOLT DC	145.00		435.00

NORTHWEST MARINE
IRON WORKS

CONFIRMED ROSIE (206) 624-5785 435.00

ALRM BELL

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54638 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 92019
EXPENSE CODE ▶ 10

JOB COST

NWMAR126008

VENDOR

A. J. DAVIS & SONS, INC. 21030 (1)
P.O. BOX 14654
PORTLAND, OR 97214

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 3/01/88
TERMS 2% N30
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 3/02/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0733	2	EA		HUBBELL PLUG 30A 250V TWIST LOCK #2711	29.9900		59.98
002	0733	2	EA		HUBBELL RECEPTACLES CONNCECTOR BODIES TWISTLOCK 30A 250V #2713	15.5000		31.00
								90.98

3/22 Comp 91.98

NORTHWEST MARINE IRON WORKS

CONFIRMED JOHN (503) 234-5258

TWISTLOCK

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 92018
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54615 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126009

VENDOR

PYRAMID ELECTRONICS 63870 (1)
8623 SOUTH 212TH
KENT WA. 98031

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	01

DATE 3/01/88
TERMS 1%1030
F.O.B. ORIGIN
SHIP VIA UPS RED
DUE DATE 3/04/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0729	20	EA		COAX CONNECTORS OMNI SPECTRA #3082-0000-00	78.2800		1,565.60

3/23 Comp 1580.00

NORTHWEST MARINE IRON WORKS

CONFIRMED CHRISTIE MITCHELL (206) 872-5800 1,565.60

CONNECTOR

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54607 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89884
EXPENSE CODE ▶ 10

JOB COST

NWMAR126010

VENDOR

MARINE LAND SERVICES
4040 S.E. 12TH CT.
GRESHAM OR 97080

48000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/26/88
TERMS NET 15
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0727	1	EA		SQ D ENCLOSURE CLASS 90001-KY1	32.2400		32.24
002	0727	1	EA		SQ D OPERATOR W/LIGHT MODULE CLASS 9001-K1L1	37.7800		37.78
003	0727	1	EA		SQD LAMP CLASS 9001, TYPE 225/6V	1.0100		1.01
004	0727	1	EA		SQD CONTACT BLOCK CLASS 900A KA1	9.1900		9.19

NORTHWEST MARINE IRON WORKS

CONFIRMED DIANE (503) 289-2575 ELECT

3/7

80.22

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54587 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90267
EXPENSE CODE ▶ 10

JOB COST

NWMAR126011

VENDOR

WESTCON, INC.
5101 N. INTERSTATE
PORTLAND, OR 97217

83395 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	01

DATE 2/25/98
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA UPS BLUE
DUE DATE 3/01/98

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0003	1	EA		FLUKE MULTI METER MOD#8021B	179.00		179.00
002	0003	1	EA		TEST LEAD SET TLS-2000	29.0000		29.00
003	0003	1	EA		CARRING CASE MOD#C-90	12.0000		12.00

3/7/98 Comp 229.00

NORTHWEST MARINE IRON WORKS

CONFIRMED AL (503) 283-0132 220.00

MULTI-METER

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54584 -

SHOW THIS NUMBER ON INVOICE

BY T. HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89883
EXPENSE CODE ▶ 10

JOB COST

NWMAR126012

VENDOR

PACIFIC ELECTRIC
1009 W. 13TH STREET
VANCOUVER WA 98660

58495 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/25/88
TERMS NET 30
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 2/25/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0711	1	EA		REWIND MOTOR FROM 220V TO 440V	145.00		145.00

NORTHWEST MARINE IRON WORKS

CONFIRMED CHAVA (503) 286-1169 SVCS 3/7 145.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54575 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90282
EXPENSE CODE ▶ 18

JOB COST

NWMAR126013

VENDOR

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

17260 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/24/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					VSNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	3/7/88 Part.	485.56	
001	0739	30	LF		1 1/4" X 1" F/G PIPE COVER MIL-I-22344C	0.8400		25.20
002	0739	60	LF		1 1/2" X 1" F/G PIPE COVER MIL-I-22344C	0.9100		54.60
003	0733	60	LF		3 1/2" X 1" F/G PIPE COVER MIL-I-22344C	1.7200		103.20
004	0733	30	LF		3" X 1" F/G PIPE COVER MIL-I-22344C	1.2300		36.90
005	0711	30	LF		2" X 1" F/G PIPE COVER MIL-I-22344C	0.9900		29.70
006	0709	30	LF		2 1/2" X 1" PIPE COVER MIL-I-22344C	1.1000		33.00
007	0733	250	SF		8.5 OZ RED CLOTH	0.3200		80.00

CONFIRMED PAT (503) 284-9395 INSUL. MATL.

3/29 Part. 571.80
4/5 Comp 26.40

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY PAT MCQUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75244
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54555 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126014

VENDOR

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

17260 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/24/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
008	0711	250	SF		8.5 OZ RED CLOTH	0.3200		80.00
009	0730	250	SF		8.5 OZ RED CLOTH	0.3200		80.00
010	0718	250	SF		8.5 OZ RED CLOTH	0.3200		80.00
011	0709	250	SF		8.5 OZ RED CLOTH	0.3200		80.00
012	0716	250	SF		8.5 OZ RED CLOTH	0.3200		80.00
013	0718	30	LF		1 1/8" X 3/4" RUBBER PIPE COVER MIL-P-15280	0.6400		19.20
014	0718	10	EA		1 LB. ROLLS 18 GA. GALV. TIE WIRE	0.8900		8.90
015	0709	5	EA		1 LB ROLLS 18 GA. GALV. TIE WIRE	0.8900		4.45
016	0730	5	EA		1 LB ROLLS 18 GA. GALV. TIE WIRE	0.8900		4.45
017	0739	10	EA		1 LB. ROLLS 18 GA. GALV. TIE WIRE	0.8900		8.90
018	0718	15	GAL		ADHESIVE WHITE BORDEN ARABOL E-16588 OR EQ.	9.0000		135.00
019	0709	5	GAL		ADHESIVE WHITE BORDEN ARABOL E-16588 OR EQ.	9.0000		45.00
020	0733	10	GAL		ADHESIVE WHITE BORDEN ARABOL	9.0000		90.00

CONFIRMED PAT (503) 284-9395
INSUL. MATL.
PAGE 2

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO.▶ 54555 -
SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75244
EXPENSE CODE ▶ 10

JOB COST

NWMAR126015

VENDOR

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

17260 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/24/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					E-1658B OR EQ.			
					CONFIRMED PAT (503) 284-9395			1,078.50
					INSUL. MATL.			
					PAGE 3			

*****

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75244
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54555 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126016

VENDOR

BROWER CONSTRUCTION CO. 11110 (1)
7043 south 190th
KENT, WA 98032

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE	2/25/88
TERMS	NET 30
F.O.B.	DR-PPD
SHIP VIA	PENINSULA
DUE DATE	2/29/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0730	2200	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		1,788.60
002	0718	375	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		304.88
003	0728	500	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		406.50
004	0757	200	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		162.60
005	0709	200	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		162.60
006	0711	1000	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		813.00
007	0770	500	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		406.50

CONFIRMED PHYLLIS (800) 223-2956
F/G HULLBD
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54556 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75243
EXPENSE CODE ▶ 10

JOB COST

NWMAR126017

VENDOR

BROWER CONSTRUCTION CO. 11110 (1)

7043 SOUTH 190th
KENT, WA 98032

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE	2/25/88
TERMS	NET 30
F.O.B.	ON-PPD
SHIP VIA	PENINSULA
DUE DATE	2/29/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
008	0713	250	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/ CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		203.25
009	0733	500	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		406.50
010	0743	300	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/ CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		243.90
011	0739	1500	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/ CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		1,219.50
012	0108	100	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/ CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		81.30
013	0763	150	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		121.95
014	0719	25	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		20.33
015	0106	400	SF		1" FACED INSUL. F/G TO MEET COAST	0.8130		325.20

CONFIRMED PHYLLIS (800) 223-2956
F/G HULLBD
PAGE 2

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54556 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCQUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75243
EXPENSE CODE ▶ 10

JOB COST

NWMAR126018

VENDOR

BROWER CONSTRUCTION CO. 11110 (1)

7043 SOUTH 190th
KENT, WA 98032

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE	2/25/88
TERMS	NET 30
F.O.B.	OR-PPD
SHIP VIA	PENINSULA
DUE DATE	2/29/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)			
016	0729	960	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NBI)	0.8130		780.48
017	0731	250	SF		1" FACED INSUL. F/G TO MEET COAST GUARD NO. 164.009 2.77 LB/CU. FT. DENSITY MIL-I-742E TYPE 1 (NB1)	0.8130		203.25
018	0611	50	SF		1" FACED INSUL. F/G PER CG NO. 164.009 MIL-I-742E TY 1 KWS NBI	0.8130		40.65
019	0716	200	SF		1" FACED INS. F/G PER CG NO. 164. 009 MIL-I-742E TY 1 KWS NB1	0.8130		162.60
020	0734	500	SF		1" FACED INS. F/G PER CG NO. 164. 009 MIL-I-742E, TY 1, KWS NB1	0.8130		406.50
021	0730	40	SF		1" FACED INS. F/G PER CG NO. 164. 009 MIL-I-742E, TY 1, KWS NB1	0.8130		32.52
022	0730	1	LT		FREIGHT (FOB - KENT)		100.00	100.00

NORTHWEST MARINE IRON WORKS

3/7 Comp 8292.60

CONFIRMED PHYLLIS (800) 223-2956 8,392.60

F/G HULLBD

PAGE 3

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54556 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75243
EXPENSE CODE ▶ 10

JOB COST

NWMAR126019

VENDOR

POPE RIGGING LOFT, INC. 62250 (1)
P.O. BOX 10558
PORTLAND, OR 97210

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KELLEY	17

DATE 2/23/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0727	25	EA		ROUND EYE SWIVEL BOLT SNAP, BRASS 3/8"	1.5000		37.50
002	0709	25	EA		1/4 DIA. ZINC PLATED LAP LINKS	0.3500		8.75
003	0716	25	EA		(50 TOTAL) 1/8" NICO-PRESS SLEEVES	0.2000		5.00
004	0718	25	EA		1/8" DIA. NICO-PRESS SLEEVES	0.2000		5.00

3/7 Amr 72.75

NORTHWEST MARINE IRON WORKS

CONFIRMED STEVE (503) 228-1426 56.25
SLEEVES
PAGE 1
*****

NORTHWEST MARINE IRON WORKS

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 83895
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54514 --
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126020

VENDOR

BLACK BALL MARINE 09675 (1)
5128 N. ALBINA
PORTLAND, OREGON 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MURRAY	09

DATE 2/23/88
TERMS
F.O.B.
SHIP VIA DEL
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0112A	20	GAL		VFB000 WHITE VINUX	21.4700		429.40

4/5/88 add 429.40

NORTHWEST MARINE IRON WORKS

CONFIRMED MIKE ( ) 288-5159 3/7 429.40

PAINT

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54505 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73233
EXPENSE CODE ▶ 10

JOB COST

NWMAR126021

VENDOR

SANDERSON SAFETY SUPPLY CO. 68920 (1)
1101 S.E. 3RD
PORTLAND, OR 97214

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM BURNETT	07

DATE 2/24/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0550B	1	LT		SANDERSON TO ACCOMPLISH ALL WORK ON CHANGE ORDER		2,700.00	2,700.00
002	0516B	1	LT		SUPPLY NEW SIREN IN PARA. 7.7.5		500.00	500.00
003	0550A	1	LT		SANDERSON TO SUPPLY BRACKETS IN CHANGE ORDER		300.00	300.00
004	0619A	1	LT		SPARE CHARGE & TOOL FOR R-102 R-102 SYSTEM		150.00	150.00
005	0516	1	LT		SANDERSON SAFETY TO SUPPLY AND INSTALL NEW PRESSSURE SWITCH.		150.00	150.00
006	0516	1	LT		SANDERSON SAFETY TO SUPPLY AND INSTALL NEW PRESSURE SWITCH	150.00	3/22 Part. 450.00 3/22 Part. 762.38 3/22 comp 2687.50	150.00

NORTHWEST MARINE IRON WORKS

CONFIRMED JIM HITCHCOCK (503) 238-5700 3,950.00

SERVICE

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY VANCE PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89097
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54490 -
SHOW THIS NUMBER ON INV

JOB COST

NWMAR126022

VENDOR

BYE ENGRAVING, INC.
7914 SW BARBUR BLVD
PORTLAND, OR 97219

12719 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HALL	11

DATE 2/22/88
TERMS COD
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
					FURNISH LABOR & MAT'L TO FAB. TOTAL OF (35) LABEL PLATES PER ATTACHED LISTS.			
001	0711	4	EA		STAINLESS STL ENGRAVED	10.0000		40.00
002	0728	5	EA		ANODIZED ALUM. PHOTO ENG.	7.0000		35.00
003	0108	12	EA		STAINLESS STL. ENGRAVED	10.0000		120.00
004	0103A	2	EA		STAINLESS STL ENGRAVED	10.0000		20.00
005	0767	12	EA		STAINLESS STL ENGRAVED	10.0000		120.00

3/7 Comp 735.96

NORTHWEST MARINE IRON WORKS

CONFIRMED THELMA (503) 246-4653 335.00

LABEL PLATES

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54487 -

SHOW THIS NUMBER ON INV

BY PUTNAM
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90803
EXPENSE CODE ▶ 10

JOB COST

NWMAR126023

VENDOR

PORTLAND VALVE & FITTING CO. 62700 (1)
P.O. BOX 12152
PORTLAND, OR 97212

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM/VP	07

DATE	2/22/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	W/C
DUE DATE	2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0104A	2	EA		SS-1210-1-8 SWAGELOK FITTING	14.5500		29.10
002	0104A	2	EA		SS-8-TA-7-8 SWAGELOK FITTING	13.9000		27.80
					CONFIRMED SUZANNE (503) 288-6901		2/29	56.90
					FITTINGS			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54486 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91156
EXPENSE CODE ▶ 10

JOB COST

NWMAR126024

VENDOR

IRC ALUMINUM & STAINLESS 37686 (1)
2130 N.W. YORK
PORTLAND, OR. 97210

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM	07

DATE	2/22/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR.
DUE DATE	2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0104A	20	LF		3/4 OD X .065 SS TUBING	6.9500		139.00
002	0104A	20	LF		1/2 OD X .065 SS TUBING	4.1600		83.20
					CONFIRMED KEN (503) 228-7110			222.20
					S.S. TUBING PAGE 1			

3/7/88 Chmp. 222.70

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54482 -

SHOW THIS NUMBER ON INVO

JOB COST

BY PUTNAM — BUYER — AUTHORIZATION

BY R. W. HUGET, JR. — PURCHASING AGENT — AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89094
EXPENSE CODE ▶ 10

NWMAR126025

VENDOR

PORTLAND VALVE & FITTING CO. 62700 (1)
P.O. BOX 12152
PORTLAND, OR 97212

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/22/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA UPS RED
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0104A	1	EA		SS-1210-2-08 SWAGELOK FITTINGS	23.5000		23.50
002	0104A	1	EA		SS-810-1-4 SWAGELOK FITTINGS	9.3500		9.35
004	0104A	3	EA		SS-810-1-6 SWAGELOK FITTINGS	9.7000		29.10
005	0104A	3	EA		SS-1212-1 SWAGELOK FITTINGS	4.9100		14.73
006	0104A	3	EA		SS-1214-1 SWAGELOK FITTINGS	1.7800		5.34
007	0104A	3	EA		SS-1213-1 SWAGELOK FITTINGS	2.0300		6.09
008	0104A	2	EA		SS-810-1-8 SWAGELOK FITTINGS	10.7000		21.40

NORTHWEST MARINE IRON WORKS

CONFIRMED CHERYL (503) 288-6901 FITTINGS 2/29 109.51

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54480 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89095
EXPENSE CODE ▶ 10

JOB COST

NWMAR126026

VENDOR

CONSTRUCTION SERVICE CO. 18709 (1)
1300 POWELL STREET
EMERYVILLE, CALIF 94608

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/23/88
TERMS CASH
F.O.B. SHOP
SHIP VIA AIR FRT
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
003	0609A	1	LOT		(2)NO-16-CARTRIDGE	300.31		300.31
					TO GO WITH HYDRAULIC WINCH PL-4-12-10			
					ADD TO EXSISTING P.O.			
					CONFIRMED DOXIE (415) 652-6800			300.31
					CARTRIDGES			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54465 -01

SHOW THIS NUMBER ON INVOI

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91124
EXPENSE CODE ▶ 10

JOB COST

NWMAR126027

VENDOR

CONSTRUCTION SERVICE CO. 18709 (1)
1300 POWELL STREET
EMERYVILLE, CALIF 94608

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
MILLER	14

DATE 2/22/88
TERMS CASH
F.O.B.
SHIP VIA EMERY AIR
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0609A	1	LOT		HYDRAULIC WINCH PL-4-12-10	1,429.00		1,429.00
					INCLUDES 2 EA. SAFETY VALVES REFERENCE 28, PART#20870			
002	0609A	1	LOT		EMERY AIR FREIGHT		100.00	100.00

4/5/88 add 179.55

NORTHWEST MARINE IRON WORKS

CONFIRMED RICH RUFELLI (415) 652-6800 1,529.00

WINCH

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54465 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89597
EXPENSE CODE ▶ 10

JOB COST

NWMAR126028

VENDOR

KNAPPTON CORPORATION 43996 (1)
9030 N. W. ST. HELENS RD.
PORTLAND, OR 97203

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	20

DATE 2/24/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0210	1	LOT		LAUNCH SERVICE TO FERRY MATERIAL TO MEET USNS OBSERVATION ISLAND ON 24, FEBRUARY.		120.00	120.00
002	0210	1	LOT		LAUNCH SERVICE TO TRANSPORT PERSONNEL TO USNS OBSERVATION ISLAND AND STANDBY UNTIL RELEASED		240.00	240.00

3/7/88 Part 75.00
3/7/88 Part 165.00
3/7/88 comp 380.00

NORTHWEST MARINE IRON WORKS

CONFIRMED (503) 286-0631 360.00

SERVICES

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 85745
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54443 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126029

VENDOR

WILLAMETTE TUG & BARGE CO. 84330 (1)
P.O. BOX 3320
PORTLAND, OR 97208

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KUNKEL	20

DATE 2/23/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0020	1	LOT		PROVIDE TUG'S TO RELEASE SHIP FROM BERTH 304, AND RETURN TO BERTH 304 AFTER SEAL TRIAL, 0700 ON 2/24/88 TUGS ALSO TURN SHIP TO SET COMPASS	5,000.00		5,000.00

3/7 Part. 1296.00
3/7 Comp 1296.00

NORTHWEST MARINE IRON WORKS

CONFIRMED (503) 285-9111 5,000.00

TUG SERVICE
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO.▶ 54439 -
SHOW THIS NUMBER ON INVOICE

BY HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 81732
EXPENSE CODE ▶ 18

JOB COST

NWMAR126030

VENDOR

JIGGS' FLOORS
4835 N. ALBINA
PORTLAND, OR 97217

41000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
R. COURY	09

DATE 2/22/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0718	1	LOT		AUTHORIZED OVERTIME AT A RATE OF 20.00 PER HR. OVER REG RATE UP TO 1400.00 OR 70 HRS	1,400.00		1,400.00

NORTHWEST MARINE IRON WORKS

CONFIRMED WALKER HUGHES (503) 249-5835

OVERTIME 1,400.00

PAGE 1

3/22

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54434 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73206
EXPENSE CODE ▶ 10

JOB COST

NWMAR126031

VENDOR

ADVANCED FINISHING SYSTEMS 02041 (1)
2304 N. KILLINGSWORTH
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
COURY	09

DATE 2/19/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0751	1	GAL		DUPONT CENTARI ADVANCED FINISH BEIGE A.H. #16	45.0000		45.00
002	0751	1	GAL		THINNER	9.0000		9.00
003	0751	1	PT		HARDNER	19.0000		19.00

NORTHWEST MARINE IRON WORKS

CONFIRMED STEVE (503) 285-0569 3/1/88 73.00

PAINT

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54419 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73296
EXPENSE CODE ▶ 10

JOB COST

NWMAR126032

VENDOR

CONSOLIDATED SUPPLY
P.O. BOX 5788
PORTLAND OREGON 97228

18490 (1)

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM/VP	07

DATE	2/22/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	W/C
DUE DATE	2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0727	1	EA		LAVATORY TRIM AMERICAN STD. 2248.714	87.6200		87.62

NORTHWEST MARINE IRON WORKS

CONFIRMED SUE (503) 620-7050 2/29 87.62

FAUCET

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54416 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91148
EXPENSE CODE ▶ 10

JOB COST

NWMAR126033

VENDOR

PETERSON INDUSTRIAL PRODUCTS 61225 (1)
2300 N. W. 29TH
P.O. BOX #10917
PORTLAND, OR 97210

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
CLARK	02

DATE	2/19/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	W/C
DUE DATE	2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0516	50	L/F		5" ID FLEXIBLE HVAC HOSE FLEXAUST TYPE CWY OR EQUAL. THIS HOSE IS RATED FOR HIGH RELIABLITY IN SEVERE SERVICE SITUATIONS OUTDOOR EXPOSURE, SEVERE FLEXING-40 DEGREE F TO + 250 DEGREES F, 13 PSI 3.8 BENDING RADIUS & IS CONSTRUCTED OF NEOPRENE IMPREGNATED NYLON FABRIC WITH ENCLOSED STEEL WIRE	4.8000		240.00
002	0516	8	EA		5" STAINLESS STEEL CLAMPS #6888	0.9410		7.53
003	0733	6	EA		4" RD BAR DIAMETER STAINLESS STOOL CLAMP #6872	0.8470		5.08
		CONFIRMED ROD			(503) 222-9446		2/29	252.61
					FLEX HOSE			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

BY PUTNAM — BUYER — AUTHORIZATION

BY R. W. HUGET, JR. — PURCHASING AGENT — AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 79861
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54414 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126034

VENDOR

CONSOLIDATED SUPPLY
P.O. BOX 5788
PORTLAND OREGON 97228

18490 (1)

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM	07

DATE	2/19/88
TERMS	NET 30
F.O.B.	ORGIN
SHIP VIA	WILL CALL
DUE DATE	2/20/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727D	1	EA		SHOWER MIXING VALVES MCC POWERS T-423	193.50		193.50
002	0727D	3	PR		CHECK STOPS FOR ABOVE	10.8000		32.40
003	0727D	2	EA		SHOWER MIXING VALVES MCC POWERS T-423 INC PREMIUM BUYOUT CHARGE	228.00		456.00

3/7 Part. 225.90
3/7 Comp 456.00

NORTHWEST MARINE IRON WORKS

CONFIRMED SUE: (503) 620-7050 681.90

SHOWER VALVES
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54412 -

SHOW THIS NUMBER ON INVOICE

BY VANCE — BUYER — AUP — AUTHORIZATION

BY R. W. HUGET, JR. — PURCHASING AGENT — AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91147
EXPENSE CODE ▶ 10

JOB COST

NWMAR126035

VENDOR

PORTLAND VALVE & FITTING CO. 62700 (1)
P.O. BOX 12152
PORTLAND, OR 97212

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/19/88
TERMS NET 30
F.O.B. ORGIN
SHIP VIA WILL CALL
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	30	EA		B-810-1-6 SWAGELOK FITTINGS	3.4500		103.50

NORTHWEST MARINE IRON WORKS

CONFIRMED SUZIANNE (503) 288-6901 2/29 103.50

FITTINGS

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54404 -

SHOW THIS NUMBER ON INVOICE

JOB COST

BY VANCE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89090
EXPENSE CODE ▶ 10

NWMAR126036

VENDOR

STUD WELDING PRODUCTS INC 73837 (1)
2000 E COLUMBIA WY BLDG 7
VANCOUVER WA 98661

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW/JAMES	06

DATE	2/23/88
TERMS	NET 30
F.O.B.	N/A
SHIP VIA	VENDOR
DUE DATE	1/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0730	1	LOT		RENTAL, STUD WELDER UNIT		1,200.00	1,200.00
					NOTE: A/P RENTAL CHARGES FROM 1/18 TO 2/23 APPLY TO JOB 3251-730			
					(ORIGINALLY RENTED ON P.O. 52114 FOR MYERS)			
					CONFIRMED GREG (206) 695-2020			1,200.00
					RENTAL			

DAF 5/4/88 600.00

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54397 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75236
EXPENSE CODE ▶ 15

JOB COST

NWMAR126037

VENDOR

REFRIGER. HARDWARD SUPPLY 65520 (1)
P.O. BOX 1549
SUN VALLEY, CA 91353

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NUTTER/JAMES	02

DATE 2/23/88
TERMS COD
F.O.B. OR-PPD
SHIP VIA UPS-RED
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0718	1	EA		LOCKING REFRIGERATOR DOOR HANDLE P/N 43-328	15.5800		15.58
002	0718	1	LT		UPS-RED		10.0000	10.00

NORTHWEST MARINE
IRON WORKS

CONFIRMED PAM (800) 423-2446 25.58

REF. DOOR HANDLE
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54396 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75227
EXPENSE CODE ▶ 10

JOB COST

NWMAR126038

VENDOR

BYE ENGRAVING, INC.
7914 SW BARBUR BLVD
PORTLAND, OR 97219

12719 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
CLARK	02

DATE 2/22/88
TERMS COD
F.O.B. DEST.
SHIP VIA VENDOR
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0718	1	EA		FIRE DAMPER 1-158-1		4.0000	4.00
002	0718	1	EA		FIRE DAMPER 1-160-2		4.0000	4.00
					WORDS IN RED, DWG. 605-82803 1874109, SHT#9, R-31 3/4" TYPE LETTERING.			
					MISSING LABEL REQUIRED BY COAST GUARD			
					CONFIRMED THELMA (503) 246-4653			8.00
					LABEL PLATE			

Petty Cash

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 79863
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54395 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126039

VENDOR

ALLIED SAFE & VAULT CO. 03375 (1)
1603 N.E. UNION
PORTLAND, OR 97232

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/JAMES	02

DATE 2/22/88
TERMS NET 30
F.O.B. OR-PPD
SHIP VIA AIR FRT.
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0716	1	LT		LABOR & MATERIAL TO FIX MOSLER SECURITY FILE PARTS $280.00 LABOR $76.00	356.00		356.00
002	0716	1	LT		AIR FREIGHT CHARGES FOR MOSLER SECURITY FILE PARTS.		100.00	100.00
003	0718	1	LT		#5560 PAD LOCK & KEYS	36.27		36.27
004	0716	1	LT		REPAIR OF 4 DRAWER SECURITY CONTAINER.	93.50		93.50
005	0713	1	LT		LABOR & MATERIAL TO INSTALL SIMPLEX 903 LOCK.	204.00		204.00
					NOTE: REF WORK ORDERS E32815, E32816, E32814 & E34815.			
		CONFIRMED LOU			(503) 281-1177			789.77

SVC SAFE REPAIR
PAGE 1

NORTHWEST MARINE IRON WORKS

BY PAT MCQUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75224
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54389 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126040

VENDOR

CHOWN HARDWARE & MACHINE 16080 (1)
333 N. W. 16TH AVE.
PORTLAND, OR 97209

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
80	02

DATE	2/18/88
TERMS	1%-10
F.O.B.	OR-PPD
SHIP VIA	UPS-RED
DUE DATE	2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 99-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	30	EA		IVES HEAVY DUTY DOOR STOP AND HOLDER PRODUCT #4498260	16.6700		500.10
					CHOWN ITEM # 18498			
002	0727	1	LOT		UPS RED (FOB LA)		50.0000	50.00
							4/5 add'l 39.00	
							3/7/88	448.50
		CONFIRMED JOE			(503) 243-6500			550.10
					DOOR STOP			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80274
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54388 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126041

VENDOR

BYE ENGRAVING, INC.
7914 SW BARBUR BLVD
PORTLAND, OR 97219

12719 (-1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
COURY	02

DATE 2/18/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	1	EA		FIRE DAMPER 1-161-1	4.0000		4.00
002	0718	1	EA		FIRE DAMPER 1-159-2	4.0000		4.00
003	0718	1	EA		FIRE DAMPER 1-176-1	4.0000		4.00
004	0718	1	EA		FIRE DAMPER 1-181-1	4.0000		4.00
005	0718	1	EA		FIRE DAMPER 1-162-1	4.0000		4.00
006	0718	1	EA		FIRE DAMPER 1-151-2	4.0000		4.00
007	0718	1	EA		FIRE DAMPER 1-160-2	4.0000		4.00
008	0718	1	EA		FIRE DAMPER 1-183-1	4.0000		4.00
009	0718	1	EA		FIRE DAMPER 1-16-1	4.0000		4.00
010	0718	1	EA		FIRE DAMPER 1-183-2	4.0000		4.00

CONFIRMED THELMA (503) 246-4653
LABEL PLATE
PAGE 1

Paid from Petty cash

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 79862
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54386 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126042

VENDOR

HEWITT OFFICE PRODUCTS 35803 (1)
631 NE GRAND AVE
PORTLAND OR 97232

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
DAHLEN	02

DATE	2/19/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	WILL CALL
DUE DATE	2/20/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0709	1	EA		FILE CABINET, 36" WIDE, BLK, HON 2 DWR.	125.00		125.00

NORTHWEST MARINE IRON WORKS

CONFIRMED JACK (503) 236-1351 FILE CAB. 3/7/88 125.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54385 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80150
EXPENSE CODE ▶ 10

JOB COST

NWMAR126043

VENDOR

KEN R. HUMKE
P.O. BOX 5128
PORTLAND, OR 97208

37220 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
80	02

DATE 2/18/88
TERMS 1%-10
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	12	EA		PADDLE HANDLE SLAM LATCHES 4859NP, 2-5/8 L X 2 W, NICKLE PLTD	5.2200		62.64
002	0718	12	EA		PADDLE HANDLE SLAM LATCHES 4859NP, 2-5/8 L X 2 W, NICKLE PLTD	5.2200		62.64

NORTHWEST MARINE IRON WORKS

CONFIRMED LEROY (503) 222-9741 3/7/88 125.28

N-PLTD LATCHES

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54380 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91270
EXPENSE CODE ▶ 10

JOB COST

NWMAR126044

VENDOR

MAR-DUSTRIAL SALES, INC. 47820 (1)
4865 N. LAGOON
PORTLAND, OR 97217

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
MILLER	14

DATE	2/18/88
TERMS	NET 30
F.O.B.	SHOP
SHIP VIA	DEL.
DUE DATE	2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATIONS (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0519	6	EA		COPPER CLAD GASKETS 3-5/8" OD X 2-1/2" ID	18.0000		108.00
002	0519	6	EA		CLAD DBL SOCKET 3-3/4" OD X 3-1/4" I.D.	18.0000		108.00
003	0519	1	LOT		EXPIDITE CHARGE	70.0000		70.00
004	0519	1	LOT		UPS RED		18.0000	18.00

NORTHWEST MARINE IRON WORKS

CONFIRMED NEIL (503) 285-4541 PARTS 304.00

2/29/88

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54364 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89594
EXPENSE CODE ▶ 10

JOB COST

NWMAR126045

VENDOR

IN-MAR SALES, INC.
1522 N. AINSWORTH
PORTLAND, OR 97217

38035 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/12/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VVENDOR
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		3/7/88 Part. 3/7/88 Comp	103.50 2995.15
001	0506A	1	EA		2-1/2-0-60 1/4" IPS L.C. GAGE (AIR)	13.7000		13.70
002	0506A	1	EA		2-1/2" 0-600 PSI 1/4" L.C. NPT (STEAM)	13.7000		13.70
003	0506A	1	EA		3-1/2 0-15 PSI 1/4 L.C. NPT (PHENOL CASE) (AIR)	40.9000		40.90
004	0506A	1	EA		4-1/2 30-0-100 1/4 NPT L.C. (PHENOL CASE) (FUEL OIL)	71.8000		71.80
005	0506A	2	EA		4-1/2 0-30 HG. REAR LOWER MOUNT 3/8" O-RING	234.00		468.00
006	0506A	1	EA		4-1/2 0-1000 L.C. 1/4 NPT (PHENOL) (AIR)	71.8000		71.80
007	0506A	1	EA		4-1/2 0-30 MIL-SPEC REAR LOWER MOUNT 3/8 O-RING (STEAM)	234.00		234.00

CONFIRMED BILL STOCKWELL (503) 283-5138
GAUGES

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO.▶ 54353 -
SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89077
EXPENSE CODE ▶ 10

JOB COST

NWMAR126046

VENDOR

IN-MAR SALES, INC.
1522 N. AINSWORTH
PORTLAND, OR 97217

38035 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/12/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VVENDOR
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
008	0506A	6	EA		2-1/4 BI-METAL 0-250 DEGREE REAR CENTER 2" PROBE 1.2" NPT.	34.5000		207.00
009	0506A	3	EA		2-1/2" BI-METAL 0-250 DEGREE REAR CENTER 2" PROBE 1/2" NPT.	34.5000		103.50
010	0506A	1	EA		3" MIL-SPEC 20-240 LOWER MOUNT 2" PROBE	210.00		210.00
011	0506A	1	EA		3" BI-METAL 0-250 LOWER MOUNT 2" PROBE (SUB 20-240 DEGREE)	56.0000		56.00
012	0506A	1	EA		3" BI-METAL (25-125 DEGREE) LOWER MOUNT, 4" STEM	56.0000		56.00
013	0506A	1	EA		3" BI-METAL 0-250 ALL ANGLE 4" PROBE	89.9000		89.90
014	0506A	1	EA		3" MIL SPEC 40-180 REAR CENTER 2" PROBE	133.65		133.65
015	0506A	1	EA		3" BI-METAL 30-130 REAR CENTER 4"- PROBE	37.4000		37.40
016	0506A	1	EA		BLADE TYPE 9" 50-600 REAR LOWER 16 X 3/4 PROBE W/STEP 2-1/2 X 5/16	138.00		138.00

CONFIRMED BILL STOCKWELL (503) 283-5158
GAUGES

PAGE 2

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54353 --

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89077
EXPENSE CODE ▶ 10

JOB COST

NWMAR126047

VENDOR

IN-MAR SALES, INC.
1522 N. AINSWORTH
PORTLAND, OR 97217

38035 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/12/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VVENDOR
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
017	0506A	1	EA		BLADE TYPE 7" 40-240 45 DEGREE MOUNT 4" X 3/4" PROBE W/STEP 2-1/2 X 5/16 (SUB 30-240 DEGREE)	55.9000		55.90
018	0506A	1	EA		BLADE TYPE 5" 50-225 LOWER MOUNT 2" X 3/8 PROBE (SUB 20-180 DEGREE)	33.7500		33.75
019	0506A	1	EA		4-1/2 LOWER CON. 30-0-60 1/4 NPT	71.8000		71.80
020	0506A	1	EA		4-1/2 0-60 1/4 NPT LOWER CONN.	71.8000		71.80
021	0506A	1	EA		2-1/2 0-200 1/4 NPT LOWER CONN.	13.7000		13.70
022	0506A	1	EA		2-1/2 0-300 1/4 NPT LOWER CONN.	13.7000		13.70
023	0506A	1	EA		4-1/2" GAUGE ASHCROFT 1279A (R-12 SCALE, 1/4" L.M. 30-0-150#	40.9000		40.90
024	0506A	1	EA		3-1/2" GAUGE,ASHCROFT 1279A 0-300 PSI, 1/4" L.M.	71.8000		71.80
025	0506A	1	EA		4-1/2" MIL-SPEC GAUGE, 0-30" HG, 3/8" R.L., IH-6685-00-906-4006	234.00		234.00
026	0506A	1	EA		MINIHELIC II GAUGE 0-20" WATER 2-1/2" DIA. R.L. CONN.	47.0000		47.00
027	0506A	1	EA		4-1/2" DIFFERENTIAL PRESSURE GAUGE 0-30 PSI, 1/4" L.M. #1125 ASHCROFT	285.00		285.00

CONFIRMED BILL STOCKWELL (503) 283-5158
GAUGES

PAGE 3

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54353 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89077
EXPENSE CODE ▶ 10

JOB COST

NWMAR126048

VENDOR

IN-MAR SALES, INC.
1522 N. AINSWORTH
PORTLAND, OR 97217

38035 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/12/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VVENDOR
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
028 0506A		1	LOT		INBOUND UPS BLUE		40.0000	40.00

NORTHWEST MARINE
IRON WORKS

CONFIRMED BILL STOCKWELL (503) 283-5158 2,924.70

GAUGES

PAGE 4

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54353 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89077
EXPENSE CODE ▶ 10

JOB COST

NWMAR126049

VENDOR

PORTLAND VALVE & FITTING CO. 62700 (1)
P.O. BOX 12152
PORTLAND, OR 97212

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/18/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DAPS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	30	EA		B-600-1-6 SWAGELOK FITTINGS	2.1000		63.00

NORTHWEST MARINE IRON WORKS

CONFIRMED PETRA (503) 288-6901

FITTINGS

PAGE 1

2/29

63.00

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54350 --

SHOW THIS NUMBER ON INVOICE

BY VANCE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89085
EXPENSE CODE ▶ 10

JOB COST

NWMAR126050

VENDOR

W & O SUPPLY, INC. 81604 (1)
5555 N. CHANNEL AVE. BLDG. 72
PORTLAND, OREGON 97217

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM	07

DATE	2/18/98
TERMS	NET 11
F.O.B.	ORIGIN
SHIP VIA	WILL CALL
DUE DATE	2/18/98

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62333 98-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	2	EA		1/2" BRUE GATE VALVES	75.0000		150.00
002	0727	6	EA		1/2" SCREWED BRZ. GATE VALVES	14.4000		86.40
					CONFIRMED TERRY (503) 289-8882		3/22	236.40
					VALVES			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

BY VANCE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91137
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54349 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126051

VENDOR

JAMESTOWN METAL MARINE SALES 40730 (1)
CORPORATE PLAZA, SUITE 400
4710 NW SECOND AVE.
BOCA RATON, FL 33431

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NUTTER	02

DATE 2/18/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA FED X
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	15	EA		DECK PADS, STEEL, 3" DIA X 1/4" THK	12.5000		187.50
002	0709	15	EA		DECK PADS, STEEL, 3" DIA X 1/4" THK	12.5000		187.50

NORTHWEST MARINE IRON WORKS

CONFIRMED DOUG RITCHIE (305) 994-3900

4/11

375.00

DECK PADS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54348 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91135
EXPENSE CODE ▶ 10

JOB COST

NWMAR126052

VENDOR

W & O SUPPLY, INC. 81604 (1)
5555 N. CHANNEL AVE. BLDG. 72
PORTLAND, OREGON 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BENNETT	07

DATE 2/18/88
TERMS NET 11
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	07678	1	EA		2-1/2" BRONZE FLANGED SWING CHECK VALVE 150# STD	265.00		265.00

3/22 Comp 264.00

NORTHWEST MARINE IRON WORKS

CONFIRMED RICH (503) 289-8882 265.00

VALVE

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54346 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91688
EXPENSE CODE ▶ 10

JOB COST

NWMAR126053

VENDOR

BAY VALVE
P.O. BOX 808
MARTINEZ, CA. 94553
ATTN: MIKE

08284 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM/VP	07

DATE 2/18/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA C/F AIR
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0509A	1	EA		4" 600# GLOBE VALVE, FLANGED STOP CHECK, REBUILT.	1,200.00		1,200.00
002	0509A	1	LOT		INBOUND AIR FREIGHT		250.00	250.00

3/11 add 571.89

2/29 1200.00

NORTHWEST MARINE IRON WORKS

CONFIRMED MIKE (415) 228-0665 1,450.00

VALVE

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54345 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91134
EXPENSE CODE ▶ 10

JOB COST

NWMAR126054

VENDOR

JIGGS' FLOORS
4835 N. ALBINA
PORTLAND, OR 97217

41000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
COURY	09

DATE 2/18/88
TERMS NET 30
F.O.B.
SHIP VIA
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0627	1	LOT		CLEAN CARPETS IN CHIEF ENGR. OFFICE AND STATEROOM, CAPT. OFFICE AND STATEROOM, CHIEF MATE STATEROOM, AND CREWS LOUNGE.	420.00		420.00

NORTHWEST MARINE IRON WORKS

CONFIRMED WALDER HUGES (503) 249-5835 SERVICE 3/22 420.00

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54336 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73294
EXPENSE CODE ▶ 10

JOB COST

NWMAR126055

VENDOR

IN-MAR SALES, INC.
1522 N. AINSWORTH
PORTLAND, OR 97217

38035 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
R. COURY	09

DATE 2/18/88
TERMS
F.O.B.
SHIP VIA DEL
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0117	10	GAL		DEVOE 237 GRAY WITHOUT NON-SKID ADDED. DRESS UP COATING	24.4500		244.50

NORTHWEST MARINE IRON WORKS

CONFIRMED KILEY (503) 283-5158 PAINT 244.50

2/29

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54324 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73282
EXPENSE CODE ▶ 10

JOB COST

NWMAR126056

VENDOR

MONTGOMERY ELEVATOR CO 52043 (1)
4265 S.E. INTERNATIONAL WAY
MILWAUKIE, ORE 97222

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
W. HALL	11

DATE 2/17/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62333 88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0106A	1	LOT		FURNISH LABOR & MATERIAL TO REMOVE REINSTALL & ADJUST ELEVATOR DOOR ASSY IN WAY OF BHD. REPAIRS.	800.00		800.00
		CONFIRMED ROGER			(503) 238-8621			800.00
					LABOR & MAT'L			
					PAGE 1			

J-25 800.00

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90805
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54312 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126057

VENDOR

PARAMOUNT SUPPLY CO.
P.O. BOX 14096
PORTLAND, OR 97214

60000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BENNETT	07

DATE 2/17/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62393-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	50	STS		BRASS RINGS AND O-RINGS FOR 1/2" U.E.S.B VALVES	3.0000		150.00
002	0718	30	STS		BRASS RINGS AND O-RINGS FOR 3/8" U.E.S.B. VALVES	2.6400		79.20
003	0718	20	STS		BRASS RINGS AND O-RINGS FOR 3/4" U.E.S.B. VALVES	3.7000		74.00

3/7/88 Part. 234.08
3/7/88 Comp 69.12

NORTHWEST MARINE IRON WORKS

CONFIRMED MIKE (503) 232-4137 303.20

VALVES

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54311 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91682
EXPENSE CODE ▶ 10

JOB COST

NWMAR126058

VENDOR

BYE ENGRAVING, INC.
7914 SW BARBUR BLVD
PORTLAND, OR 97219

12719 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
COURY	02

DATE 2/18/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
011	0718	1	EA		FIRE DAMPER 1-179-1	4.0000		4.00
					LABEL PLATES WITH RED LETTER R-31 3/4" TYPE DWG 1874109 REV. D. SHT #9			
					CONFIRMED THELMA (503) 246-4653			44.00
					LABEL PLATE PAGE 2			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 79862
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54386 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126059

NORTHWEST MARINE IRON WORKS

P.O. BOX 3109 PORTLAND, OREGON 97208

MATERIAL RETURNED TO VENDOR

JOB # 3251

DEPT. 07

DATE RETURNED 3/4/88

RETURNED VIA

RETURN TO: PARAMOUNT SUPPLY CO.
P.O. BOX 14096
PORTLAND, OREGON 97214

- [ ] MAIN PLANT DIVISION – 228-8222
- [x] SWAN ISLAND DIVISION – 228-8222
- [ ] FABRICATION DIVISION – 283-3143

ITEM #	QTY.	DESCRIPTION	PRICE	UNIT
0509 A	3 Ea.	4" 600# PSI GLOBE VALVE FLANGED STOP CHECK	3,165.80	Ea.

Restocking charge 10%

MATERIAL DISC. _____ Total

REASON RETURNED – NOT AS ORDERED ☐ DUPLICATION ☐ DAMAGED ☐ DEFECTIVE ☐ EXCHANGE ☐ OTHER ☐

REMARKS

Didn't Fit.

3/23/89 Rall

VENDOR'S INVOICE # P211401

No. R 6190

RECEIVED BY _____ Vendor's Agent

ORIGINAL PO # 54 306

DATE RECEIVED _____

APPROVED BY _____

NWMAR126060

VENDOR

PARAMOUNT SUPPLY CO.
P.O. BOX 14096
PORTLAND, OR 97214

60000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/17/88
TERMS NET 25
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0509A	1	EA		4" 600 PSI GLOBE VALVE FLANGED STOP CHECK P/N 26FCB3-SC VITAS 17-F-F	3,165.80		3,165.80
		CONFIRMED MIKE			(503) 232-4137			3,165.80
					VALVE			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54306 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89080
EXPENSE CODE ▶ 10

JOB COST

NWMAR126061

VENDOR

CONSOLIDATED SUPPLY
P.O. BOX 5788
PORTLAND OREGON 97228

18490 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/16/88
TERMS NET 30
F.O.B. DEST.
SHIP VIA VENDOR
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER US GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	2	EA		AMERICAN STD WATER CLOSETS 2221.018	67.5000		135.00
002	0627	2	EA		AMERICAN STD WATER CLOSETS 2221.018	67.5000		135.00

2/29 Part. 135.00

NORTHWEST MARINE IRON WORKS

CONFIRMED SUE (503) 620-7050 270.00

WATER CLOSETS
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54299 -

SHOW THIS NUMBER ON INVOICE

BY VANCE
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91125
EXPENSE CODE ▶ 10

JOB COST

NWMAR126062

VENDOR

NORTHWEST MARINE IRON WORKS 55477 (1)
2516 N.W. 29TH
PORTLAND, OR 97210

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/18/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0552	1	EA		SHIMS (TWO HALVES) 3/8 THICK 10-1/8 O.D. MILL & GRIND TO .273 +.0005, -.0000	225.00		225.00
002	0552	1	EA		SHIMS (TWO HALVES) 3/8 THICK 10-7/8" O.D. MILL & GRIND TO .200 +.0005, -.0000	225.00		225.00
		CONFIRMED DON			( ) 228-8222 SHIMS		2/29	450.00

PAGE 1

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54298 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89228
EXPENSE CODE ▶ 10

JOB COST

NWMAR126063

***** BODY ADDED *****

VENDOR

UNIVERSAL HYDRAULIC SERVICE 80286 (4)
10950 S.W. 5TH, SUITE 350
BEAVERTON, OR 97005

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/17/88
TERMS NET 30
F.O.B. SHIP
SHIP VIA DEL
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFEID DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATIONS (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0519D	1	LOT		ADDITIONAL ANCHOR WINDLESS HYD-RAULIC DRIVE COMPONENTS. PER YOUR QUOTE.	28,174.00		28,174.00
		CONFIRMED DAN			( ) - COMPONENTS			28,174.00

2/29 28194.00

NORTHWEST MARINE IRON WORKS

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54292 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89589
EXPENSE CODE ▶ 10

JOB COST

NWMAR126064

***** BODY ADDED *****

VENDOR

UNIVERSAL HYDRAULIC SERVICE 80286 (4)
10950 S.W. 5TH, SUITE 350
BEAVERTON, OR 97005

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/17/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0104A	1	LOT		TO COVER THE COST OF ADDITIONAL PARTS PER YOUR QUOTE	2,381.00		2,381.00

NORTHWEST MARINE IRON WORKS

CONFIRMED DAN ( ) - 2/29 2,381.00

PARTS

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54291 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89590
EXPENSE CODE ▶ 10

JOB COST

NWMAR126065

***** PO CHANGED *****

VENDOR

GENERAL ELECTRIC CO.
SERVICE SHOP
2727 N. W. 29TH
PORTLAND, OR 97210

30845 (4)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/17/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0552E	1	LOT		ADDITIONAL ROTOR WORK PER G.E. QUOTE #EB88-27	11,259.00		11,259.00
					CONFIRMED ED BUTTERFIELD (503) 221-5100			11,259.00

ROTOR

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89592
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54290 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126066

***** BODY ADDED *****

VENDOR

GENERAL ELECTRIC CO. 30845 (4)
SERVICE SHOP
2727 N. W. 29TH
PORTLAND, OR 97210

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/17/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0552E	2	EA		ADDITIONAL ROTOR WORK PER G.E. QUOTE #EB88-27	11,259.00		22,518.00

2/29 Comp 11259.00

NORTHWEST MARINE IRON WORKS

CONFIRMED ED BUTTERFIELD (503) 221-5100 22,518.00

ROTOR

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54290 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89592
EXPENSE CODE ▶ 10

JOB COST

NWMAR126067

VENDOR

GENERAL ELECTRIC CO.
SERVICE SHOP
2727 N. W. 29TH
PORTLAND, OR 97210

30845 (4)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/17/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0552	2	EA		ADDITIONAL COST FOR BALANCING GENERATOR ROTORS	568.00		1,136.00
		CONFIRMED ED			(503) 221-5100			1,136.00
					ROTORS			

1/29 568.00

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUSET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89591
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54289 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126068

VENDOR

GIMPEL CORP
P O BOX 188
LANGHORNE PA 19047

32485 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/17/88
TERMS CASH
F.O.B. LANGHORNE
SHIP VIA MOTOR FRE
DUE DATE 10/31/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0210	1	LOT		ONE SET OF ON-BOARD REPAIR PARTS- SET TO CONSIST OF:	19,500.00		19,500.00
002	0210	1	EA		VALVE STEM	0.0000		0.00
003	0210	1	EA		DISC	0.0000		0.00
004	0210	1	EA		SEAT	0.0000		0.00
005	0210	1	EA		BUSHING	0.0000		0.00
006	0210	1	EA		GASKETS	0.0000		0.00
007	0210	1	EA		SPRINGS	0.0000		0.00
008	0210	1	EA		PISTON RINGS	0.0000		0.00

NOTE: PARTS TO BE MANUFACTURED IN ACCORDANCE WITH DWG S155 ON J.O. 52-1432

2/26 Part 1/3 down Payment. 6500.00

12/1/88 Final 12495.22

NORTHWEST MARINE IRON WORKS

CONFIRMED OZZIE WERNER ( ) - 19,500.00

PARTS

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54288 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 69587
EXPENSE CODE ▶ 10

JOB COST

NWMAR126069

***** PO CHANGED *****

VENDOR

SHOP SERVICES INC.
19390 S.W. SHAW
ALOHA, OR. 97007

70780 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/16/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0203D	1	LT		OVERHAUL OLD DRUM SAFETY VAVLES AS PER DIRECTION FROM MSC REPRESENTATIVE (4 EA)	840.00		840.00
					SET @ 695 PSI 700 PSI			
					CONFIRMED SUSAN (503) 642-7871			840.00

3/7/88 840.00

OVERHAUL

PAGE 1

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89216
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54281 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126070

VENDOR

COLUMBIA RIVER PILOTS ASSOC. 17630 (1)
13225 N LOMBARD
PORTLAND OR 97203

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BOB KUNKEL	20

DATE 2/23/88
TERMS NET 30
F.O.B.
SHIP VIA
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0020	1	LOT		PROVIDE RIVER PILOT TO ASTORIA AND BACK FROM SEA TRIAL OUT FROM BERTH 304 ON 24 FEBRUARY, RETURN TO BERTH 304 ON 25 FEBRUARY	1,870.00		1,870.00

2/29/88 Pmt. 810.59
3/7/88 Comp 910.59

NORTHWEST MARINE IRON WORKS

CONFIRMED DAN (503) 289-9922 1,870.00

PILOT SERVICES
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54278 -

SHOW THIS NUMBER ON INVOICE

BY HUBET
BUYER AUTHORIZATION

BY R. W. HUBET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 81730
EXPENSE CODE ▶ 18

JOB COST

NWMAR126071

VENDOR

DALE'S CATERING SERVICE 20645 (1)
2420 S.E. BELMONT ST.
PORTLAND, OREGON 97214

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	20

DATE 2/18/88
TERMS C(0)
F.O.B.
SHIP VIA
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0020	1	LOT		PROVIDE SERVICES AND FOOD AS NECESSARY TO CATER THE FIX MEALS REQUIRED TO ACCOMPLISH THE SEA TRIALS ON THE ABOVE VESSEL FOR APPROX. 140 PEOPLE.	7,555.00		7,555.00
					2-BREAKFAST 2-LUNCH 1 DINNER			
					CONFIRMED DALE (503) 234-9948			7,555.00
					SERVICES			

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HUGET
BUYER AUTHORIZATION

BY R. M. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89882
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54275 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126072

VENDOR

W. W. GRAINGER
6335 N. BASIN
PORTLAND, OR 97217

33269 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HUGET	02

DATE 2/18/88
TERMS COD
F.O.B.
SHIP VIA
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0711	1	EA		CABINET TOOL, 78" H X 36" WX 24" D, S/N 3W044	253.66		253.66
		CONFIRMED			(503) 283-0366			253.66
					CABINETS			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90005
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54274 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126073

VENDOR

PORT OF PORTLAND
P.O. BOX 3529
PORTLAND, OR 97208

62270 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KINGREY	20

DATE 2/11/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0003	1	LOT		USE AND REHABILITATION FEE FOR USNS OBSERVATION ISLAND.		315,000.00	315,000.00 ✓
					ORIGINAL ESTIMATE-$260,000.00 GROWTH ESTIMATE-$55,000.00			

1/14/88 Part 32500.00 ✓
1/28/88 Part 32500.00 ✓
01/21/88 Part 13746.00 ✓
02/03/88 Part. 32500.00 ✓
02/11/88 Part. 32500.00 ✓
2/19/88 Part 32500.00 ✓
2/25/88 Part. 32500.00 ✓
3/3/88 Part. 32500.00

NORTHWEST MARINE IRON WORKS

CONFIRMED JUDY (503) 231-5331 USE FEE 315,000.00

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90001
EXPENSE CODE ▶ 20

PURCHASE ORDER
NO. ▶ 54272 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126074

VENDOR

COLUMBIA RIVER BAR PILOTS 17625 (1)
P.O. BOX 81
ASTORIA, OR 97103

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
KUNKEL	20

DATE 2/17/88
TERMS COD
F.O.B.
SHIP VIA
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0020	1	LOT		PROVIDE BAR PILOT FOR OBSERVATION ISLAND TO GO ON SEA TRIAL & RETURN TO ASTORIA AND THEN TO PORTLAND.	1,188.00		1,188.00

3/1/88 add 275.00

NORTHWEST MARINE IRON WORKS

CONFIRMED DISPATCH (503) 325-2641 1,188.00

PILOT SERVICES
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54271 -

SHOW THIS NUMBER ON INVOICE

BY HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 86581
EXPENSE CODE ▶ 18

JOB COST

NWMAR126075

VENDOR

AMERICAN STEEL
4033 N.W. YEON
PORTLAND, OR 97210

04470 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BO	02

DATE 2/18/88
TERMS 1%-10
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0770	2	SHT		16 GA GALV. 48" X 120"	40.2300		80.46
002	0718	2	SHT		16 GA GALV. 48" X 120"	40.2300		80.46
003	0727	10	SHT		16 GA GALVENEAL 48" X 120"	43.5200		435.20

2/29 596.89

NORTHWEST MARINE IRON WORKS

CONFIRMED BIL ADAMS (503) 226-1511 596.12

GALV. SHEET
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54258 -

SHOW THIS NUMBER ON INVOICE

BY MCQUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80272
EXPENSE CODE ▶ 10

JOB COST

NWMAR126076

VENDOR

AL COMPRESSED GASES
2313 N.E. UNION
PORTLAND, OREGON 97212

00793 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NUTTER/JAMES	02

DATE 2/17/88
TERMS ~~NET 30~~
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0709	1	EA		92 CF BTL COMPRESSED AIR	122.95		122.95
002	0739	1	EA		92CF BTL COMPRESSED AIR	122.95		122.95
003	0727	1	EA		92 CF BTL COMPRESSED AIR	122.95		122.95
					CONFIRMED ROB GILBERT (503) 287-1203			368.85
					COMPRESSED AIR PAGE 1			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80147
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54249 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126077

VENDOR

PACIFIC METAL CO.
P.O. BOX 5033
PORTLAND, OR 97208

58670 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
80	02

DATE 2/17/88
TERMS 1%-10
F.O.B. ORGIN
SHIP VIA WILL CALL
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATIONS (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	1	SHT		.125 5052 AL. 48" X 120	129.50		129.50

NORTHWEST MARINE IRON WORKS

CONFIRMED KEN (503) 227-0691 ALUM 2/24/89 129.50

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54245 -

SHOW THIS NUMBER ON INVOICE

BY MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUWET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80269
EXPENSE CODE ▶ 10

JOB COST

NWMAR126078

VENDOR

ALASKAN COPPER & BRASS 02720 (1)
P.O. BOX 5067
PORTLAND, OR 97228

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DEAK BROWN	02

DATE 2/17/88
TERMS 1/2-10
F.O.B. ORGIN
SHIP VIA WILL CALL
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0709E	1	SHT		12# -2B S.S. 4' X 10' 176#	248.16		248.16
		CONFIRMED DENNIS			(503) 238-7171 ST. STL.			248.16

PAGE 1

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54243 --

SHOW THIS NUMBER ON INVOICE

BY MCQUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80271
EXPENSE CODE ▶ 10

JOB COST

NWMAR126079

VENDOR

PACIFIC INSULATION 58610 (1)
5716 N.E. HASSALO
PORTLAND, OREGON 97213

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/16/88
TERMS 1%-10
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	50	YDS		17 OZ. RED CLOTH	8.7100		435.50
002	0739	50	YDS		17 OZ. RED CLOTH	8.7100		435.50
003	0709	10	YDS		17 OZ. RED CLOTH	8.7100		87.10
004	0730	10	YDS		17 OZ. RED CLOTH	8.7100		87.10
005	0757	10	YDS		17 OZ. RED CLOTH	8.7100		87.10
006	0713	10	YDS		17 OZ. RED CLOTH	8.7100		87.10
007	0733	10	YDS		17 OZ. RED CLOTH	8.7100		87.10
					(150 YARDS TOTAL)			
008	0591	25	YDS		17 OZ. WHITE CLOTH	6.3700		159.25
009	0709	10	YDS		17 OZ. WHITE CLOTH	6.3700		63.70

CONFIRMED GARY (503) 282-3274
INSULATION
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75218
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54242 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126080

VENDOR

PACIFIC INSULATION
5716 N.E. HASSALO
PORTLAND, OREGON 97213

58610 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/16/88
TERMS 1%-10
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
010	0713	10	YDS		17 OZ. WHITE CLOTH	6.3700		63.70
011	0711	5	YDS		17 OZ. WHITE CLOTH	6.3700		31.85
					(50 YARD TOTAL)			
012	0804	25	RLS		3M 1" BLACK TAPE	2.4000		60.00
013	0804	30	LF		3-1/8" X 3/4" RUBBER PIPE COVER	1.8800		56.40
014	0804	30	LF		4-1/8" X 3/4" RUBBER PIPE COVER	2.4100		72.30
015	0804	6	SHT		3/4" FLAT SHEET (12 SF PER SHT)	15.2000		91.20

2/29 1905.90

NORTHWEST MARINE IRON WORKS

CONFIRMED GARY (503) 282-3274 1,904.90

INSULATION

PAGE 2

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54242 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75218
EXPENSE CODE ▶ 10

JOB COST

NWMAR126081

VENDOR

FLAIR PLASTIC PRODUCTS 28633 (1)
1427 N.W. DAVIS
PORTLAND, OREGON 97210

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/HALL	06

DATE 2/16/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/16/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATIONS (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0608A	1	SHT		3/8" 4' X 8' CLEAR LEXAN	265.60		265.60

NORTHWEST MARINE IRON WORKS

CONFIRMED LIANE (503) - 2/29 265.60
CLEAR LEXAN
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54241 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89699
EXPENSE CODE ▶ 10

JOB COST

NWMAR126082

VENDOR

IN-MAR SALES, INC.
1522 N. AINSWORTH
PORTLAND, OR 97217

38035 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MURRAY	09

DATE 2/17/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0117	24	EA		9" NAPLLESS ROLLER COVERS FOR APPLICATION OF NON-SKID DECK COVERING	1.9000		45.60

NORTHWEST MARINE IRON WORKS

CONFIRMED KILEY (503) 283-5158

ROLLER COVERS
PAGE 1

2/24

45.60

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54238 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73205
EXPENSE CODE ▶ 10

JOB COST

NWMAR126083

VENDOR

FRED DEVINE DIVING & SALVAGE 21958 (1)
6211 N. ENSIGN
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MCCLURE	17

DATE 2/16/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0904	1	LOT		PROVIDE DIVER TO SURVEY BOW THRUSTER AREA BEFORE DOCK TRIAL		550.00	550.00

2/29 515.44

NORTHWEST MARINE IRON WORKS

CONFIRMED JOE (503) 283-5285 SERVICE 550.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54232 --

SHOW THIS NUMBER ON INVOICE

BY TASHBANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 77434
EXPENSE CODE ▶ 10

JOB COST

NWMAR126084

VENDOR

DAVIS INDUSTRIAL PRODUCTS CO. 21070 (1)
P.O. BOX 4228
PORTLAND, OR 97208

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MURRAY	09

DATE 2/16/88
TERMS NET 30
F.O.B. ORGIN
SHIP VIA DEL.
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 3500) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0117	50	EA		7" DISC COURSE #MMSBSCDAC 7 X HN	2.7500		137.50
002	0117	12	EA		CUP WIREBRUSH WITH .020 WIRE 5/8" ARBOR	25.4500		305.40
		CONFIRMED PAUL			(503) 226-1221 TOOLS			442.90

2/29 Part 229.05
2/29 Part. 137.50
3/22 Comp 76.35

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54230 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUBET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73203
EXPENSE CODE ▶ 10

JOB COST

NWMAR126085

VENDOR

GRATING SPECIALTIES
3575 - 25TH ST., S.E.
SALEM, OR 97302

33295 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
W/HALL/VP	11

DATE 2/12/88
TERMS COD
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0715	60	SF		ALUM "I" BAR GRATING X 36" WIDE 3/16 X 1, 5194 IB100	8.2800		496.80
					$497.00 LOT PRICE			
		CONFIRMED JIM CARR			(503) 223-4059			496.80
					I BAR GRATING PAGE 1			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54191 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89996
EXPENSE CODE ▶ 10

JOB COST

NWMAR126086

VENDOR

ALASKAN COPPER & BRASS 02720 (1)
P.O. BOX 5067
PORTLAND, OR 97228

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/12/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0713	40	FT		1" IPS X .065 COPPER PIPE	2.7000		108.00
002	0739	40	FT		1" IPS X .065 COPPER PIPE	2.7000		108.00
003	0718	40	FT		1" IPS X .065 COPPER PIPE	2.7000		108.00

NORTHWEST MARINE IRON WORKS

CONFIRMED DENNIS (503) 238-7171 3/7/88 324.00

COPPER PIPE
PAGE 1

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89075
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54187 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126087

VENDOR

NORVAC SERVICES, INC.
5555 N CHANNEL AVE.
PORTLAND, OR 97217

55705 (2)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/11/88
TERMS NET 30
F.O.B. DEST
SHIP VIA ON SITE
DUE DATE 2/08/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0804A	1	LOT		NORVAC TO PROVIDE SERVICES TO ACCOMLISH CHEMICAL FLUSHING OF CHILLED WATER SYSTEM.	13,920.00		13,920.00

NORTHWEST MARINE IRON WORKS

CONFIRMED (503) 283-4533 SERVICE 2/22/88 13,920.00

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54182 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89074
EXPENSE CODE ▶ 18

JOB COST

NWMAR126088

VENDOR

PARAMOUNT SUPPLY CO.
P.O. BOX 14096
PORTLAND, OR 97214

60000 (1)

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM	07

DATE	2/11/88
TERMS	NET 25
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	4	EA		1/2 FPT ANTI-SYPHONIC VENT PVC MEMARCO FF-1	47.0000		188.00
002	0716	1	EA		1/2 FPT ANTI-SYPHONIC VENT PVC MEMARCO FF-1	47.0000		47.00
003	0707	1	EA		1/2 FPT ANTI-SYPHONIC VENT PVC MEMARCO FF-1	47.0000		47.00
		CONFIRMED MIKE			(503) 232-4137 VENT		2/29	282.00

PAGE 1

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER — AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT — AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89071
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54180 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126089

VENDOR

KEN R. HUMKE
P.O. BOX 5128
PORTLAND, OR 97208

37220 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BO	02

DATE 2/12/88
TERMS 1%-10
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	36	EA		ALUM SILCONE 732 10.3 OZ CARTRIDGE (12 PER CASE)	4.1500		149.40
		CONFIRMED MEL			(503) 222-9741 AL SILICONE PAGE 1		2/29	149.40

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54175 -

SHOW THIS NUMBER ON INVOICE

BY MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89696
EXPENSE CODE ▶ 10

JOB COST

NWMAR126090

VENDOR

JUNIPER INDUSTRIES 42072 (1)
PO BOX 148
MIDDLE VILLAGE, NY 11379

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DICK CLARK	02

DATE	2/12/88
TERMS	N30
F.O.B.	OR-PPD
SHIP VIA	UPS RED
DUE DATE	2/15/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0711	1	EA		CIRCULAR DIFFUSION TERMINAL #JE-101, AL	94.0000		94.00
002	0711	1	LOT		UPS-RED (FOB NY)		20.0000	20.00
					NOTE: MAT'L ORIGINALLY GFM			

3/16/88 Comp. 107.50

FCD 7/6/88

NORTHWEST MARINE IRON WORKS

CONFIRMED CARL (800) 221-4664 114.00

DEFF. TERMINAL
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54173 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUSET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89694
EXPENSE CODE ▶ 10

JOB COST

NWMAR126091

VENDOR

INTERSTATE RENTALS
5240 N. INTERSTATE AVE.
PORTLAND, OR 97217

39165 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/JAMES	02

DATE 2/12/88
TERMS N30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0727	1	LOT		RENTAL OF HEAVY DUTY VARIABLE SPEED JIG SAW.		140.00	140.00
					$10.00 A DAY; $35.00 A WEEK			
					APPROX. 1 WEEK RENTAL			
					NOTE PURCHASE ORDER IS NOT TO EXCEED $280.00			
					CONFIRMED (503) 285-6683 RENTAL			140.00

1/5 comp 323.22

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54172 -

SHOW THIS NUMBER ON INVOICE

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87564
EXPENSE CODE ▶ 15

JOB COST

NWMAR126092

VENDOR

TAP PLASTICS INC.
12404 N. E. HALSEY
PORTLAND, OR 97230

74790 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/HALL	06

DATE 2/11/88
TERMS COD
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0608A	2	SHT		3/16" X 4' X 8' CLEAR LEXAN	149.76		299.52
					CONFIRMED CARLA (503) 256-3080 CLEAR LEXAN			299.52

PAGE 1

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87562
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54169 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126093

VENDOR

AIMSCO
P.O. BOX 99056
SEATTLE, WA 98199-0056

02335 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
80	02

DATE 2/18/88
TERMS N/A
F.O.B.
SHIP VIA
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
004	0727	12-	EA		SSTL PADDLE HANDLE SLAM LATCHES 4859SS	6.8000		81.60-
005	0718	12-	EA		SSTL PADDLE HANDLE SLAM LATCHES 4859SS	6.8000		81.60-
006	0718	1-	LOT		UPS RED		30.0000	30.00-
					THIS PURCHASE ORDER CANCELLED IN ITS ENTIRETY AT NO COST TO NWMIW; VENDOR COULD NOT SUPPLY AS REQ'D.			
					REFERENCE P.O. #54380 FOR REBUY. 4859NP (NICKEL PLTD.)			
		CONFIRMED JOHN			(206) 284-5563			193.20-
					CANCELLATION			
					PAGE 1			
								*****

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91269
EXPENSE CODE ▶ 10

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO. ▶ 54163 -01
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126094

VENDOR

AIMSCO
P.O. BOX 99056
SEATTLE, WA 98199-0006

02335 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
80	02

DATE 2/11/88
TERMS 1%-10
F.O.B. OR-PPD
SHIP VIA UPS-RED
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	12	EA		PADDLE HANDLE SLAM LATCHES NON-LOCKING, S/STL, 2-5/8" L OVERALL X 2" WIDE, #485988	6.8000		81.60
002	0718	12	EA		PADDLE HANDLE SLAM LATCHES NON-LOCKING, S/STL, 2-5/8" L OVERALL X 2" WIDE, #485988	6.8000		81.60
003	0718	1	LOT		UPS-RED/GREYHOUND (FOB NY)		30.0000	30.00
		CONFIRMED JOHN			(206) 284-5563			173.20
					SSH LATCHES			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

BY MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89899
EXPENSE CODE ▶ 10

NO. ▶ 54163 -
SHOW THIS NUMBER ON INV

JOB COST

NWMAR126095

VENDOR

MARINE PROPULSION SERVICES 48070 (1)
5555 N. CHANNEL AVE. BLDG. 80
PORTLAND, OR 97217

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
MILLER	14

DATE	2/16/88
TERMS	NET 30
F.O.B.	SHOP
SHIP VIA	DEL.
DUE DATE	2/16/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0772	1	EA		S-BAND DEMINERAL PUMP RUNNER	150.00		150.00
					TO BE DYNAMICALLY BALANCED AT 3540 RPM.			
					CONFIRMED (503) 283-2795 PUMP RUNNER		2/29	150.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54157 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89221
EXPENSE CODE ▶ 10

JOB COST

NWMAR126096

VENDOR

OIL FILTER SERVICE CO.
615 SE MARKET ST.
PORTLAND, OR 97214

56560 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/12/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0552	40	EA		5 MICRON MUSLIN BAGS 4" O.D. X 14" LONG	7.3800		295.20

NORTHWEST MARINE IRON WORKS

CONFIRMED DAVE (503) 232-5126

PARTS

PAGE 1

2/22

295.20

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54156 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89543
EXPENSE CODE ▶ 10

JOB COST

NWMAR126097

VENDOR

VAN WATERS & ROGERS
P. O. BOX 10287
PORTLAND, OR 97210

81169 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/12/88
TERMS C. O. D.
F.O.B. SHOP
SHIP VIA DEL
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					VBNS OBSERVATION ISLAND			
002	0752A	1	LOT		(3 DRUMS) UNINHIBITED ETHYLENE GLYCOL, CONFORMING TO MIL-E-9500 A/B	726.15		726.15
					CONFIRMED SCOTT (503) 222-1721 OIL			726.15

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89544
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54153 -01
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126098

VENDOR

VAN WATERS & ROGERS
P. O. BOX 10287
PORTLAND, OR 97210

81169 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/23/88
TERMS CASH
F.O.B. SHOP
SHIP VIA WILL CALL
DUE DATE 2/24/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0752A	1	LOT		(2) DRUMS POLYETALENE TYPE OF UNINHIBITED ETHYLENE GLYCOL- CONFORMING TO MIL-E-9500 A/B.	564.10		564.10
					CONFIRMED SCOTT STERNS (503) 222-1721			564.10

OIL

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54153 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 91122
EXPENSE CODE ▶ 10

JOB COST

NWMAR126099

VENDOR

NORTHWEST TESTING LABORATORY 55650 (1)
P.O. BOX 17126
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/12/88
TERMS NET 30
F.O.B. SHIP
SHIP VIA WILL CALL
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFT 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0609	6	EA		BOTTLES OF HYDRAULIC FLUID CHECK FOR PARTICLE COUNT ONLY	105.00		630.00
					CLASS 10			

NORTHWEST MARINE IRON WORKS

CONFIRMED GERALD (503) 289-1778 TESTING 2/22/88 630.00

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54151 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89542
EXPENSE CODE ▶ 10

JOB COST

NWMAR126100

VENDOR

PRO SERVICE INC. 63850 (1)
BOX 197
8002 N.E. HIGHWAY 99
VANCOUVER, WA 98665

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
H. MILLER	14

DATE	2/11/88
TERMS	NET 30
F.O.B.	SHIP
SHIP VIA	DEL.
DUE DATE	2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0772	2	EA		MECHANICAL SEAL #1109-1 1/4 BCFKF	58.6000		117.20
					CONFIRMED LARRY (206) 256-6650			117.20

2/22/88 117.20

NORTHWEST MARINE IRON WORKS

SEAL

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89217
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54150 --
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126101

VENDOR

NORTHWEST MARINE IRON WORKS 55477 (1)
2514 N.W. 29TH
PORTLAND, OR 97210

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
MILLER	14

DATE	2/11/89
TERMS	NET 30
F.O.B.	SHOP
SHIP VIA	
DUE DATE	2/11/89

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62333 88-C-0004, THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0552	2	EA		TURBINE SHIMS FOR GRINDING	100.00		200.00
					CONFIRMED DON ( ) 223-8222 GRINDING			200.00

2/29 150.00

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54146 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89215
EXPENSE CODE ▶ 10

JOB COST

NWMAR126102

VENDOR

GENERAL TOOL & SUPPLY CO. 31645 (5
407 N. W. 17TH AVE.
PORTLAND, OR 97209

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/11/88
TERMS NET 30
F.O.B. SHIP
SHIP VIA DEL.
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISION OF DPAS REGULATIONS (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0711B	1	EA		ENERPAC POSRTABLE HYDRAULIC PRESS PART # EN IPH-1040 ACCESSORIES: A-110 V BLOCK EN MX-1050 EN MZ-1053 EN MZ-10002 EN MZ-1003 EN P-392 PUMP	818.90		818.90
							6/16 Comp 617.92 4/11 Part. 67.65	
002	0711B	1	EA		VICTOR JOURNEYMANS TORCH SET ACCESSORIES: ROSEBUDS & TIPS	310.00		310.00
							4/11 Part. 348.05	
003	0711B	1	EA		WILTON VISE PART #4005 W/2 EA. ACCESSORIES: DC 404C C-CLAMP 4" DC 406C C-CLAMP 6" DC 408C C-CLAMP 8" DC 408C C-CLAMP 10"	243.65		243.65
							4/11 Part. 675.10 4/11 Part. 36.45 3/29 Part 310.10	
004	0711B	1	EA		PROTO SOCKET SET (3/4" DR) #5500B	310.00		310.00
							3/22 Part 1558.40 3/22 Part. 38.85	
		CONFIRMED STAN			(503) 226-3411 TOOLS			

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54144 --

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88598
EXPENSE CODE ▶ 10

JOB COST

NWMAR126103

VENDOR

GENERAL TOOL & SUPPLY CO. 31645 (1)
407 N. W. 17TH AVE.
PORTLAND, OR 97209

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/11/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
005	0711B	1	EA		PROTO SOCKET SET (1" DR.)#5700D	642.35		642.35
006	0711B	1	EA		PROTO COMB WRENCH SET 5/16 - 2"	365.10		365.10
007	0711B	1	EA		PROTO 18" CRESCENT #CRE AC-118	38.5000		38.50
008	0711B	1	EA		PROTO 24" CRESCENT #CRE AC-124	65.2000		65.20
009	0711B	1	EA		RIDGID 18" PIPE WRENCH #RID 31025	20.3500		20.35
010	0711B	1	EA		RIDGID 24" PIPE WRECH #RID 31030	32.0500		32.05
011	0711B	1	EA		RIDGID 36" PIPE WRENCH #RID 31035	67.6500		67.65
012	0711B	1	EA		4# SLEDGE HAMMER #WAR 84H (41B)	5.4500		5.45
013	0711B	1	EA		16# SLEGE HAMMER #2AR 84H (1616)	15.6000		15.60
014	0711B	1	EA		DESMOND WHEEL DRESSER #DES 0	5.2000		5.20
015	0711B	1	EA		GID TAP & DIE SET #GTD 3312	740.00		740.00
016	0711B	1	EA		WOODINGS VERONA 36" WRECKING BAR #WV-371	2.5500		2.55
017	0711B	1	EA		OTC BAR #PB-18	11.1000		11.10
018	0711B	1	EA		B & D DRILL MTR. (1/2") #BD 1321	144.40		144.40
		CONFIRMED STAN			(503) 226-3411 TOOLS			

PAGE 2

*****

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88598
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54144 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126104

VENDOR

GENERAL TOOL & SUPPLY CO. 31645 (1)
407 N. W. 17TH AVE.
PORTLAND, OR 97209

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/11/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
019	0711B	1	EA		DURAKUT DRILL INDEX #DK K-60	36.4500		36.45
020	0711B	1	EA		DURAKUT DRILL SET 17/32 -1-1/4 X 32ND	306.00		306.00
021	0711B	1	EA		NUMBER SET YF-1/4"	7.8000		7.80
022	0711B	1	EA		LETTER SET YL-1/4"	23.3000		23.30
023	0711B	1	EA		STARRET SERIES OUTSIDE MICROMETER SET (0-6) #STA 226 RL	348.05		348.05
024	0711B	1	EA		STARRET INSIDE MICROMETER SET #STA 823 AZ	82.6000		82.60
025	0711B	1	EA		STARRET DEPTH MICROMETER #STA 449 BZ	100.95		100.95
026	0711B	1	EA		STARRET TELESCOPING GUAGES #STA S-229 FZ	30.4000		30.40
027	0711B	1	EA		STARRET MAGNETIC HOE BASE #STA 657T	67.6500		67.65
028	0711B	1	EA		STARRET LAST WORD INDICATOR #STA 711 FS	51.4000		51.40

3/22 Rec. 14.75
4-25 " 2.55
4-25 " 82.60
4-25 " 442.35
4-25 " 740.00

NORTHWEST MARINE IRON WORKS

CONFIRMED STAN (503) 226-3411 TOOLS 4,892.65

PAGE 3

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54144 --

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88598
EXPENSE CODE ▶ 10

JOB COST

NWMAR126105

VENDOR

DAVIS INDUSTRIAL PRODUCTS CO. 21070 (1)
P.O. BOX 4228
PORTLAND, OR 97208

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/11/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DELIVER
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER GOV'T PRIME CONTRACT #N62383-88-C 0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0711B	1	EA		SANP-ON THREE JAW PULLER (2-1/2 TON) PART#CG243	72.8000		72.80
002	0711B	1	EA		SANP-ON LONG JAW THREE JAW PULLER (7-1/2 TON) PART#CG253L	115.00		115.00
003	0711B	1	EA		SNAP-ON THREE JAW PULLER PART# CG 273	169.00		169.00
004	0711B	1	EA		PROTO PROFESSIONAL TOOLS, DIAL TORQUE WRENCH (0-250 INCH LB) PART# 6177A	93.7500		93.75

2/29/88 Part. 356.80
3/22 Comp 93.75

NORTHWEST MARINE IRON WORKS

CONFIRMED PAUL (503) 226-1221 SNAP-ON 450.55

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54143 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88599
EXPENSE CODE ▶ 10

JOB COST

NWMAR126106

VENDOR

NORTHWEST TESTING LABORATORY 55650 (1)
P.O. BOX 17126
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/11/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL.
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0609	6	EA		BOTTLES OF HYDRAULIC FLUID FOR PARTICLE COUNT. CLASS 10	105.00		630.00
					PORT CRANE			
		CONFIRMED JERALD			(503) 289-1778			630.00
					HYD. FLUID			

Duplicate of P.O. 54151

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54142 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89539
EXPENSE CODE ▶ 10

JOB COST

NWMAR126107

VENDOR

MAR-DUSTRIAL SALES, INC. 47820 (1)
4865 N. LAGOON
PORTLAND, OR 97217

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
MILLER	14

DATE	2/10/88
TERMS	NET 30
F.O.B.	SHOP
SHIP VIA	DEL.
DUE DATE	2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0552	1	LOT		(2 EA.) FLEXATALIC GASKETS WITH A STAINLESS STEEL RING. 6-7/16" O.D X 5-1/16" I.D.	97.0000		97.00
002	0552	1	LOT		EXPEDITE CHARGE	50.0000		50.00
003	0552	1	LOT		FREIGHT CHARGE	17.0000		17.00

2/29/88 164.50

NORTHWEST MARINE IRON WORKS

CONFIRMED NEIL (503) 285-4541 164.00

GASKETS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54140 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89536
EXPENSE CODE ▶ 10

JOB COST

NWMAR126108

VENDOR

UNIVERSAL HYDRAULIC SERVICE 80286 (4)
10950 S.W. 5TH, SUITE 350
BEAVERTON, OR 97005

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/10/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DEL
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0608A	1	LOT		(2 EA.)9 ACCUMULATOR'S FOR THE HYDRAULIC START SYSTEM. RECHARGE WITH NITROGEN #4 LIFEBOAT	100.00		100.00
		CONFIRMED DAN CARNEY			( ) - RECHARGE SYSTEM PAGE 1		2/09	100.00

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89538
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54139 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126109

VENDOR

GASKET TECHNOLOGY
478 N.E. 219TH AVE.
TROUTDALE, OR 97060

30484 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BENNETT	07

DATE 2/11/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0804	50	EA		3/4" STD CLOTH INSERTED BLK RUBBER GASKETS 1/8"	0.9100		45.50
002	0804	50	EA		1" STD CLOTH INSERTED BLK RUBBER GASKETS 1/8"	1.0200		51.00
003	0804	50	EA		1-1/4" STD CLOTH INSERTED BLK RUBBER GASKETS 1/8"	1.2800		64.00
004	0804	50	EA		1-1/2" STD CLOTH INSERTED BLK RUBBER GASKETS 1/8"	1.4800		74.00

NORTHWEST MARINE IRON WORKS

CONFIRMED STEVE (503) 249-8070 2/22/88 234.50

GASKETS

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 54134 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80879
EXPENSE CODE ▶ 10

JOB COST

NWMAR126110

VENDOR

OIL FILTER SERVICE CO. 56560 (1)
615 SE MARKET ST.
PORTLAND, OR 97214

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
HARGUTH	07

DATE	2/11/88
TERMS	NET 30
F.O.B.	DEST
SHIP VIA	VENDOR
DUE DATE	2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0712	1	EA		OFSSA4-3 ADAPTER	23.7100		23.71
002	0712	1	EA		OFSSD4-3 CPLG.	38.0300		38.03
					MATL REC'D 2-10-88			

NORTHWEST MARINE IRON WORKS

CONFIRMED DAVE (503) 232-5126 FITTINGS PAGE 1

2/22/88 61.74

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54133 -

SHOW THIS NUMBER ON INVOICE

JOB COST

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89070
EXPENSE CODE ▶ 10

NWMAR126111

VENDOR

PACIFIC METAL CO.
P.O. BOX 5033
PORTLAND, OR 97208

58670 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
W/HALL	11

DATE 2/10/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DFAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0611	106	LB		(512) L/F 1" X 1/2" X 1/8" ALUM ANGLE 6061-T1	2.2600		239.56
		CONFIRMED STAN			(503) 227-0691 ALUM ANGLE PAGE 1			239.56

2/16/88 236.17

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUSET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88794
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54120 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126112

VENDOR

ADVANCED FINISHING SYSTEMS 02041 (1)
2304 N. KILLINGSWORTH
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
R. COUREY	09

DATE 2/11/88
TERMS
F.O.B.
SHIP VIA DEL.
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0709	2	GAL		ACRYLIC ENAMEL N.W. BEIGE	45.0000		90.00
002	0709	1	GAL		ACRYLIC THINNER	8.5000		8.50
003	0709	1	PT		ACRYLIC HARDENER	19.8500		19.85

NORTHWEST MARINE
IRON WORKS

CONFIRMED STEVE (503) 285-0569 2/22/88 118.35

ENAMEL

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54112 -

SHOW THIS NUMBER ON INVOICE

BY TASHKANDY
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 73275
EXPENSE CODE ▶ 10

JOB COST

NWMAR126113

VENDOR

FAMILIAN NORTHWEST, INC. 27920 (1)
P.O. BOX 17098
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HALL	11

DATE 2/10/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0415	42	LF		(2) LENGTHS (21') MIN. 6" SCHED 80 BLK PIPE SMLS	12.1000		508.20
					CONFIRMED LARRY (503) 283-3333 6" PIPE		2/29	508.20

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88788
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54097 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126114

VENDOR

MCINTYRE ENGR CO INC 49525 (1)
201 S. HILL ROAD
BRISBANE, CA 94005

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/09/88
TERMS NET 30
F.O.B. SAN FRAN.
SHIP VIA UPS RED
DUE DATE 2/16/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718C	1	EA		SIZE 1-1/2" CONVECTION HEATER	226.00		226.00
002	0718C	1	EA		SIZE 2 CONVECTION HEATER	238.00		238.00
		CONFIRMED LINDA			(415) 468-3560			464.00
					HEATERS			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89064
EXPENSE CODE ▶ 10

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO. ▶ 54090 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126115

VENDOR

PARAMOUNT SUPPLY CO.
P.O. BOX 14096
PORTLAND, OR 97214

60000 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/09/88
TERMS NET 25
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX *THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383- 89-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	6	EA		1/2 SCREWED S.S. SARCO Y STRAINERS	95.2500		571.50
					CONFIRMED MIKE (503) 232-4137			571.50
					STAINLESS			
					PAGE 1			
								*****

2/22/88 Part. 285.75
2/22/88 Comp. 285.75

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89061
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54088 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126116

VENDOR

CONSOLIDATED SUPPLY 18490 (1)
P.O. BOX 5788
PORTLAND OREGON 97228

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
PUTNAM	07

DATE 2/09/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA UPS BLUE
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DAPS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727D	10	EA		SHOWER RISER BRACKETS ONLY	10.6800		106.80

2/89 145.04

NORTHWEST MARINE IRON WORKS

CONFIRMED SUE (503) 620-7050 106.80

SHOWER BRACKETS
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY VANCE
BUYER AUTHORIZATION

BR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89981
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54087 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126117

VENDOR

ALASKAN COPPER & BRASS 02720 (1)
P.O. BOX 5067
PORTLAND, OR 97228

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
NORM	07

DATE	2/09/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	W/C
DUE DATE	2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	120	LF		1/2 IPS X .065 COPPER PIPE MIL-T-24107	1.6200		194.40

NORTHWEST MARINE IRON WORKS

CONFIRMED DENNIS (503) 238-7171 2/22/88 194.40

COPPER PIPE

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54082 -

SHOW THIS NUMBER ON INVOICE

BY PUTNAM
BUYER AUTHORIZATION

R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89027
EXPENSE CODE ▶ 10

JOB COST

NWMAR126118

VENDOR

NORTH COAST CANVAS PRODUCTS 55340 (1)
1916 N. W. OVERTON ST.
PORTLAND, OR 97209

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW	06

DATE 2/23/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA DELIVER
DUE DATE 2/26/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0715	2	EA		COVERS APX. 1-1/2" X 1-1/2" X 1'	50.0000		100.00
					TO COVER HAND WINCHS			

NORTHWEST MARINE IRON WORKS

CONFIRMED DICK (503) 227-2492 COVER 3/22/88 100.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54077 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90168
EXPENSE CODE ▶ 10

JOB COST

NWMAR126119

VENDOR

SCALER SALES
1927 NO. ARGYLE
PORTLAND, OR 97217

69132 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/23/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0020	4	EA		THERMOMETER, PTC-312, 0-250	17.2000		68.80

NORTHWEST MARINE IRON WORKS

CONFIRMED MARK (503) 289-8871

THERMOMETER

PAGE 1

2/29

68.80

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54076 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90171
EXPENSE CODE ▶ 10

JOB COST

NWMAR126120

VENDOR

MARINE LAND SERVICES 48000 (1)
4040 S.E. 12TH CT.
GRESHAM OR 97080

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/23/88
TERMS NET 15
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 10/22/68

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	2	EA		GE OVERLOAD HEATERS #81D916	58.0000		116.00
								116.00

2/29 127.50

NORTHWEST MARINE IRON WORKS

CONFIRMED DIANE (503) 289-2575

OVERLOAD

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90254
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54073 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126121

VENDOR

ALLIED SAFE & VAULT CO.
1603 N.E. UNION
PORTLAND, OR 97232

03375 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/19/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					"THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED."			
001	0713	1	EA		SARGENT GREENLEAF CYPHER LOCK LATCH BRUTE #8497	275.00		275.00
		CONFIRMED LEW			(503) 281-1177 LOCK			275.00

3/7/88 @ 275.00

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90242
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54060 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126122

VENDOR

PACIFIC ELECTRIC
1009 W. 13TH STREET
VANCOUVER WA 98660

58495 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/18/88
TERMS NET 30
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0104	1	EA		WATER TIGHT DOOR MOTOR BALDOR 460 VOLT 2.2 AMP 3450 RPM 60 HZ.	173.50		173.50

NORTHWEST MARINE
IRON WORKS

CONFIRMED CHAVA (503) 286-1169 SVCS 3/7 173.50

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54049 ~

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89388
EXPENSE CODE ▶ 18

JOB COST

NWMAR126123

VENDOR

CREATIVE COMPUTER & ELECTR. 19515 (1)
3275 S.W. CEDAR HILLS BLVD
BEAVERTON, OREGON 97005

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/17/88
TERMS COD
F.O.B. ORIGIN
SHIP VIA UPS RED
DUE DATE 2/19/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0019	1	EA		POWER SURGE PROTECTOR POWERLINE STRIP OUTLET #S-10 VOLTAGE 115 VAC FREQUENCY 50/60/HZ CURRENT 15 AMP	49.9500		49.95

NORTHWEST MARINE IRON WORKS

CONFIRMED NAN MCGEE ( ) 644-1160 49.95

SURGE PROTECTOR
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54035 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90232
EXPENSE CODE ▶ 10

JOB COST

NWMAR126124

VENDOR

GENERAL ELECTRIC CO.
UNDERSEA ELECTRONICS
P.O. BOX 4840
SYRACUSE, N. Y. 13221

30845 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/17/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/17/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0310A	1	EA		REPAIR ONE ITE CIRCUIT BREAKER AQB-A250 3 POLE 500V3PLT AC/250 VDC 150 AMPS NBN-H-17-ITE 1115 CAT NO. 5965	182.30		182.30
					CONFIRMED JIM CRANSTON/BRIAN (315) 456-4295 REPAIR		2/29	182.30

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89378
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54029 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126125

VENDOR

AUDIO GROUP
5005 S.W. MACADAM
PORTLAND, OR97201

06390 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/16/88
TERMS NET 30
F.O.B. ST. LOUIS,
SHIP VIA UPS
DUE DATE 2/22/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0412	2	EA		AUDIO TRANSFORMER 70 VOLT LINE TO VOICE COIL INPUT 45/85/125/250/500 OUTPUT 4/8/16	31.5000		63.00
					ATLAS SOUND CORP 682235 OR EQUAL			
					CONFIRMED DICK LEMARSH (503) 227-6681			63.00
					TRANS.AUDIO			
					PAGE 1			

*****

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUSET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88898
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 54020 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126126

VENDOR

BROWN BOVERI ELECTRIC, INC 11117 (3)
4000 RT. TRANSCANADIENNE
POINTE-CLAIRE PQ H9R 1B2

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
HAYWOOD	01

DATE 3/14/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA
DUE DATE 2/23/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0322	1	LOT		ATTEND VESSEL AND RIDE FOR SEA TRIAL TO CHECK OUT AND REPAIR AS NECESSARY BOW THRUSTER	15,000.00		15,000.00

5/2 Ret (3279.8)
5/2 Part. (1673.13)
5/2 Comp. 15269.84

NORTHWEST MARINE IRON WORKS

CONFIRMED J. ALEX MCPHERSON (415) 887-6236 15,000.00

TECH SERVICES
PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO.▶ 54015 -
SHOW THIS NUMBER ON INVOICE

BY T. HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89377
EXPENSE CODE ▶ 18

JOB COST

NWMAR126127

VENDOR

GENERAL ELECTRIC CO.
UNDERSEA ELECTRONICS
P.O. BOX 4840
SYRACUSE, N. Y. 13221

30845 (1)

JOB NUMBER ▶	3251
ORDERED FOR	CRAFT
HAYWOOD	01

DATE	2/12/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	W/C
DUE DATE	2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0310A	1	EA		REPAIR & TEST ONE WESTINGHOUSE 225 AMP 150 AMP TRIP STYLE 1310847	146.00		146.00

NORTHWEST MARINE IRON WORKS

CONFIRMED JOM CRANSTON (315) 456-4295

REPAIR

2/29

146.00

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 54009 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89375
EXPENSE CODE ▶ 18

JOB COST

NWMAR126128

VENDOR

MONTGOMERY ELEVATOR CO 52043 (1)
4265 S.E. INTERNATIONAL WAY
MILWAUKIE, ORE 97222

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE	2/11/88
TERMS	NET 30
F.O.B.	ORIGIN
SHIP VIA	PERSONAL
DUE DATE	2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0106A	1	EA		REMOVAL OF REPLACEMENT OF ONE ELEVATOR DOOR	1,500.00		1,500.00
					CONFIRMED (503) 238-8621 DOOR			1,500.00

Duplicate of P.O. # 54312

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89371
EXPENSE CODE ▶ 18

PURCHASE ORDER
NO. ▶ 54001 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126129

VENDOR

APOLLO MARINE SERVICES 05110 (1)
1502 N. AINSWORTH
P.O. BOX 17447
PORTLAND, OREGON 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/11/88
TERMS 2% N30
F.O.B. OUR PLANT
SHIP VIA STOCK
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0116	3	EA		LAMP, PERKO FIG 342-4 60W	7.2000		21.60

NORTHWEST MARINE IRON WORKS

CONFIRMED KERRY (503) 286-3693 LAMP 2/22/88 21.60

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53998 -

SHOW THIS NUMBER ON INVOICE

JOB COST

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90141
EXPENSE CODE ▶ 10

NWMAR126130

VENDOR

METROPLEX ELECTRONICS 50280 (1)
PO BOX 627
BORING OR

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HENDREN/KINGREY	01

DATE 2/11/98
TERMS CHECK
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/15/98

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0003	5	EA		COBRA "COMMAND CALL" 2-WAY COMMUNICATORS	44.9500		224.75

NORTHWEST MARINE IRON WORKS

CONFIRMED MARION ( ) - RADIO 224.75

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53995 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90140
EXPENSE CODE ▶ 10

JOB COST

NWMAR126131

VENDOR

HARDWARE SPECIALTY CO. 34890 (1)
3419 - 11TH AVENUE, S.W.
SEATTLE, WA 98134

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/10/88
TERMS NET
F.O.B. SEATTLE
SHIP VIA GRYHOUND
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0709	1	EA		SYM 346.3 FLOURSCENT LAMP	95.0000		95.00
		CONFIRMED GREYHOUND			(206) 624-5785			95.00

SYMBOL

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88895
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53991 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126132

VENDOR

PLATT ELECTRIC SUPPLY CO. 62180 (1)
P.O. BOX 3167
PORTLAND, OR 97208

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/09/88
TERMS NET 30
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0415A	12	EA		SCOTCH 70 SILICONE RUBBER TAPE	13.1500		157.80
					CONFIRMED KEVIN (503) 224-1919 TAPE		2/29	157.80

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88877
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO.▶ 53985 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126133

VENDOR

A. J. DAVIS & SONS, INC. 21030 (1)
P.O. BOX 14654
PORTLAND, OR 97214

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/09/88
TERMS 2% N30
F.O.B. OUR PLANT
SHIP VIA DELIVER
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0709	14	EA		OLD WORK CUT IN BOXES	3.5300		49.42

NORTHWEST MARINE IRON WORKS

CONFIRMED ALLEN (503) 234-5258 CUT IN BOXES 2/19 49.42

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53984 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90136
EXPENSE CODE ▶ 10

JOB COST

NWMAR126134

***** PO CHANGED *****

VENDOR

HARDWARE SPECIALTY CO.
3419 - 11TH AVENUE, S.W.
SEATTLE, WA 98134

34890 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HENDREN	01

DATE 2/18/88
TERMS
F.O.B.
SHIP VIA
DUE DATE 2/18/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
006	0718	8-	EA		PAULUHN DESK LIGHT #F1017DCV	187.00		1,496.00-
					THE ABOVE PARTS ARE NO LONGER REQUIRED.			
					THIS AMENDMENT IS ISSUED TO CANCEL P.O. ENTRY 003.			
					CONFIRMED ROGIE (206) 624-5785			1,496.00-

NORTHWEST MARINE IRON WORKS

LIGHTING

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53983 -01

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 90158
EXPENSE CODE ▶ 10

JOB COST

NWMAR126135

VENDOR

HARDWARE SPECIALTY CO.
3419 - 11TH AVENUE, S.W.
SEATTLE, WA 98134

34890 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/09/88
TERMS NET
F.O.B. NEW YORK
SHIP VIA AIR FREIG
DUE DATE 2/15/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0716A	1	EA		SYM 333.1 FLOURESCENT LAMP	72.0000		72.00
002	0716A	2	EA		PAULUHN FLC 220 FLOURESCENT LAMP	99.2300		198.46
003	0718	8	EA		PAULUHN DESK LIGHTS #F1017 DCV 2-15 W T8 BULB W/CLEAR DIFFUSER	187.00		1,496.00
004	0718	16	EA		BERTH LIGHT PAULUHN #FB 28 2-8W T5 BULB	66.8500		1,069.60
005	0718	12	EA		MIRROR LIGHTS-PAULUHN #F219 2-15W BULB	107.99		1,295.88
		CONFIRMED BILL			(206) 624-5785			4,131.94

3/11 add 453.87

NORTHWEST MARINE IRON WORKS

LIGHTING

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 53983 -

SHOW THIS NUMBER ON INVOICE

BY HENDREN
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88883
EXPENSE CODE ▶ 10

NWMAR126136

VENDOR

APOLLO MARINE SERVICES 05110 (1)
1502 N. AINSWORTH
P.O. BOX 17447
PORTLAND, OREGON 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
HAYWOOD	01

DATE 2/09/88
TERMS 2% N30
F.O.B. ORIGIN
SHIP VIA UPS RED
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	60	FT		TSGU-23 CABLE	1.8600		111.60
		CONFIRMED KERRY			(503) 286-3693			111.60
					CABLE			

2/22/88 194.40

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY HENDREN
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 88887
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 33980 -
SHOW THIS NUMBER ON INVOICE
JOB COST

NWMAR126137

VENDOR

ROSE CITY AWNING COMPANY 67360 (1)
PO BOX 4500-60
PORTLAND, OR 97208

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/HALL	06

DATE 2/11/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0715	2	EA		30' X 60' POLY LAM TARP	93.6000		187.20
					IF NOT AVAILABLE WE WILL TAKE THE CLOSEST SIZE TO THE ABOVE SIZE.			
					CONFIRMED (503) 226-2761 TARP		2/22/88	187.20

PAGE 1

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87560
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53955 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126138

VENDOR

CLOPAY WINDOW FASHIONS 16850 (1)
6325 6TH AVE S
SEATTLE WA 98108

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW	06

DATE 2/10/88
TERMS CSHADV
F.O.B. SEATTLE
SHIP VIA ACTION EX
DUE DATE 2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	300	FT		3/8" OD BRASS PLATED PIPE FOR CURTAIN RODS (25 - 12 FT. LGTHS)	0.6500		195.00
002	0727	1	LOT		FREIGHT - ACTION EXPRESS		35.0000	35.00
		CONFIRMED POLLY			(800) 648-9913 RODS			230.00

3/11/88 add 34.65

NORTHWEST MARINE IRON WORKS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87554
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53954 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126139

VENDOR

BYE ENGRAVING, INC.
7914 SW BARBUR BLVD
PORTLAND, OR 97219

12719 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
LANKOW	06

DATE 2/09/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/16/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727	26	EA		LABLE PLATES, 1/4" LETTERS PER ATTACHED LIST.	6.2500		162.50
					WHITE ON BLACK PHONALIC PLAQUES			
					NORTHWEST MARINE IRON WORKS			
		CONFIRMED THELMA			(503) 246-4653		2/29	162.50
					LABEL PLATES			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

BY LISA MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75216
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53952 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126140

***** BODY ADDED *****

VENDOR

WATERCRAFT SERVICE CENTER 82435 (1)
151 INDUSTRIAL PKWY
NEW IBERIA LA 70560

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/HALL	06

DATE 2/10/88
TERMS C. O. D.
F.O.B.
SHIP VIA UPS - 2ND
DUE DATE 2/16/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383 88-C-0004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0608A	7	EA		WOODEN LIFE LINE HANDLES CR-200	1.2900		9.03
002	0608A	2	EA		HAND LINE ASSEMBLY FOR 26' 44 MAN WATER CRAFT LIFE BOAT	95.5900		191.18
003	0608A	12	EA		PROVISION TANK COVERS WATERTIGHT LOCKER DOOR TYPE TCL/4 TA090	14.7400		176.88
004	0608A	1	LOT		UPS BLUE LABEL	25.9500		25.95
		CONFIRMED SONYA			(318) 365-5451			403.04
					W. T. LOCKER DOOR PAGE 1			

*****

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75211
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53951 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126141

VENDOR

K.W.S. CORPORATION
111 NORTH MINES ROAD
LIVERMORE, CA 94550

42300 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B. LIVERMORE
SHIP VIA VIKING
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0728	15	RLL		2" FIBERGLASS TAPE	6.0700		91.05
002	0729	15	RLL		2" FIBERGLASS TAPE	6.0700		91.05
003	0730	11	RLL		2" FIBERGLASS TAPE	6.0700		66.77
004	0733	10	RLL		2" FIBERGLASS TAPE	6.0700		60.70
005	0713	45	RLL		2" FIBERGLASS TAPE	6.0700		273.15

NORTHWEST MARINE IRON WORKS

CONFIRMED PAT KERR (415) 443-2555 2/22/88 582.72

TAPE

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53948 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89630
EXPENSE CODE ▶ 10

JOB COST

NWMAR126142

VENDOR

STUD WELDING PRODUCTS 73826 (1)
6446 S 144TH ST
SEATTLE WA 98168

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B. LA
SHIP VIA UPS
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	2/29 part 449.28 4/18 part. 312.28 4/18 comp 474.62		
001	0716	200	EA		3/16 X 1 MILD STEEL ARC STUDS ANNULAR GROOVE & 5/8 FERRELS	0.0840		16.80
002	0733	400	EA		3/16 X 1 MILD STEEL ARC STUDS ANNULAR GROOVE & 5/8 FERRELS	0.0840		33.60
003	0713	1200	EA		3/16 X 1 MILD STEEL ARC STUDS ANNULAR GROOVE & 5/8 FERRELS	0.0840		100.80
004	0713	800	EA		3/16 X 3 MILD STEEL ARC STUDS ANNULAR GROOVE & 5/8 FERRELS	0.1110		88.80
005	0729	1000	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		62.10
006	0728	700	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		43.47
007	0730	700	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		43.47
008	0711	200	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		12.42

CONFIRMED VAUGHN (800) 322-5777
STUDS

PAGE 1

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89637
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53946 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126143

VENDOR

STUD WELDING PRODUCTS
6446 S 144TH ST
SEATTLE WA 98168

73826 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B. LA
SHIP VIA UPS
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
009	0733	500	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		31.05
010	0739	300	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		18.63
011	0743	200	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		12.42
012	0713	2200	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		136.62
013	0709	200	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		12.42
014	0716	200	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		12.42
015	0770	100	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		6.21
016	0734	300	EA		ALUM. MUSHROOM CAPS-3/16 STUDS	0.0621		18.63
017	0734	500	EA		3/16 X 2 GLUE-ON PINS/ALUM INSUL ANCHORS	0.1485		74.25
018	0729	500	EA		3/16 X 2 GLUE-ON PINS/ALUM INSUL ANCHORS	0.1485		74.25
019	0713	1	EA		TIMER BOX ADAPTER, CAMLOCK	12.0000		12.00
020	0729	1	LOT		UPS		40.0000	40.00

NORTHWEST MARINE IRON WORKS

2/29 fax. 11:30

CONFIRMED VAUGHN (800) 322-5777 850.36

STUDS

PAGE 2

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53946 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87637
EXPENSE CODE ▶ 10

JOB COST

NWMAR126144

***** BODY ADDED *****

VENDOR

A.C. & S.
2151 N.W. WILSON
PORTLAND OR 97210

00410 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B.
SHIP VIA MILL CALL
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	38	SFT		17 OZ. RED CLOTH	0.5720		21.74
002	0709	37	SFT		17 OZ. RED CLOTH	0.5720		21.16
003	0711	37	SFT		17 OZ. RED CLOTH	0.5720		21.16
004	0730	38	SFT		17 OZ. RED CLOTH	0.5720		21.74
005	0718	1000	EA		2-1/2" LACING HOOKS & WASHERS STAMPED NO. AB	0.1500		150.00
006	0709	200	EA		2-1/2" LACING HOOKS & WASHERS STAMPED NO. AB	0.1500		30.00
007	0711	300	EA		2-1/2" LACING HOOKS & WASHERS STAMPED NO. AB	0.1500		45.00
008	0730	500	EA		2-1/2" LACING HOOKS & WASHERS STAMPED NO. AB	0.1500		75.00

CONFIRMED SUE (503) 227-6444

PIPE COVERING

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53944 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75214
EXPENSE CODE ▶ 10

JOB COST

NWMAR126145

***** BODY ADDED *****

VENDOR

A.C. & S.
2151 N.W. WILSON
PORTLAND OR 97210

00410 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
009	0733	24	LFT		2-1/2" X 1" FIBERGLASS PIPE COVER	1.1000		26.40
010	0733	60	LFT		3" X 1" FIBERGLASS PIPE COVER	1.2300		73.80
011	0546	12	LFT		2-1/8" X 3/4" RUBBER PIPE COVER	1.3700		16.44
		CONFIRMED SUE			(503) 227-6444			502.44

2/16/88 Comp 845.64

NORTHWEST MARINE IRON WORKS

PIPE COVERING
PAGE 2

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53944 -

SHOW THIS NUMBER ON INVOICE

BY NIGAB
BUYER AUTHORIZATION

BY R. W. HUSET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 75214
EXPENSE CODE ▶ 10

JOB COST

NWMAR126146

VENDOR

PACIFIC INSULATION
5716 N.E. HASSALO
PORTLAND, OR 97213

58607 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	20	GAL		FOSTERS 30-35 COATING	14.5000		290.00
002	0709	5	GAL		FOSTERS 30-35 COATING	14.5000		72.50
003	0713	5	GAL		FOSTERS 30-35 COATING	14.5000		72.50

NORTHWEST MARINE IRON WORKS

CONFIRMED GARY (503) 282-3274 COATING 2/16/88 435.00

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53742 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89632
EXPENSE CODE ▶ 10

JOB COST

NWMAR126147

VENDOR

PACIFIC INSULATION
5716 N.E. HASSALO
PORTLAND, OR 97213

58607 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/09/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0713	8	GAL		FOSTERS 81-42 ADHESIVE	9.4600		75.68
002	0709	10	GAL		FOSTERS 81-42 ADHESIVE	9.4600		94.60
003	0733	5	GAL		FOSTERS 81-42 ADHESIVE	9.4600		47.30
004	0711	10	GAL		FOSTERS 81-42 ADHESIVE	9.4600		94.60
005	0716	5	GAL		FOSTERS 81-42 ADHESIVE	9.4600		47.30
006	0804	10	GAL		FOSTERS 81-42 ADHESIVE	9.4600		94.60

NORTHWEST MARINE IRON WORKS

CONFIRMED GANY (503) 282-3274 ADHESIVE 2/16/88 454.08

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53941 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUBET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89631
EXPENSE CODE ▶ 10

JOB COST

NWMAR126148

VENDOR

PACIFIC INSULATION
5716 N.E. HASSALO
PORTLAND, OR 97213

58607 (1

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/08/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED." XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	3	LFT		4-1/2" X 1" FBRGLSS PIPE COVERING	1.6900		5.07
002	0718	12	LFT		3-1/2" X 1" FBRGLSS PIPE COVERING	1.3400		16.08
003	0718	60	LFT		3-1/2" X 1" FBRGLSS PIPE COVERING	1.3400		80.40
004	0713	30	LFT		3-1/2" X 1" FBRGLSS PIPE COVERING	1.3400		40.20
005	0709	60	LFT		5-1/2" X 1" FBRGLSS PIPE COVERING IF NOT AVAILABLE - 5" X 1"	1.8200		109.20
006	0709	15	LFT		3-1/2" X 1" FBRGLSS PIPE COVERING	1.3400		20.10
007	0711	12	LFT		4" X 3/4" RUBBER PIPE COVERING	2.3000		27.60
008	0713	4	QTS		ARMSTRONG 520 ADHESIVE/EQUAL	8.9800		35.92
009	0711	2	QTS		ARMSTRONG 520 ADHESIVE/EQUAL	8.9800		17.96
010	0730	1	QT		ARMSTRONG 520 ADHESIVE/EQUAL	8.9800		8.98
		CONFIRMED GARY			(503) 282-3274			
					PIPE COVERING			
					PAGE 1			
								*****

2/22/88 459.15

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89628
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53940 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126149

VENDOR

PACIFIC INSULATION
5716 N.E. HASSALO
PORTLAND, OR 97213

58607 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/08/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/09/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
011	0739	1	QT		ARMSTRONG 520 ADHESIVE/EQUAL	8.9800		8.98
012	0804	2	QTS		ARMSTRONG 520 ADHESIVE/EQUAL	8.9800		17.96
013	0718	5	GAL		FOSTERS 85-20 ADHESIVE	16.5400		82.70
					CONFIRMED GARY (503) 282-3274			471.15
					PIPE COVERING			
					PAGE 2			

*****

NORTHWEST MARINE IRON WORKS

BY MIGAS
BUYER AUTHORIZATION

BR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89628
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53940 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126150

VENDOR

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

17260 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/08/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/08/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0718	40	LFT		3/4" X 1-1/2" FBRGLSS PIPE COVER	1.3500		54.00
002	0718	100	LFT		1/2" X 1-1/2" FBRGLSS PIPE COVER	1.2900		129.00
003	0718	80	LFT		1-1/4" X 1" FBRGLSS PIPE COVER	0.8400		67.20
004	0718	9	LFT		12" X 1" FBRGLSS PIPE COVER	3.6300		32.67
005	0718	9	LFT		2-1/2" X 1" FBRGLSS PIPE COVER	1.1000		9.90
006	0718	80	LFT		5-1/2" X 1" FBRGLSS PIPE COVER (IF NOT AVAILABLE - 5" X 1")	1.8200		145.60
007	0718	33	LFT		6-1/2" X 1" FBRGLSS PIPE COVER (IF NOT AVAILABLE - 6" X 1")	1.9200		63.36
008	0718	100	LFT		8-1/2" X 1" FBRGLSS PIPE COVER (IF NOT AVAILABLE - 8" X 1")	2.7400		274.00
009	0718	6	LFT		1-5/8" X 3/4" RUBBER PIPE COVER	1.0000		6.00
010	0713	120	LFT		1-1/8" X 3/4" RUBBER PIPE COVER	0.6400		76.80
011	0713	24	LFT		3/4" FLAT SHEET	1.1500		27.60
012	0709	60	LFT		5-1/2" X 1" FBRGLSS PIPE COVER (IF NOT AVAILABLE - 5" X 1")	1.8200		109.20

CONFIRMED MARK

(503) 284-9395

PIPE COVERING

PAGE 1

2/18/88 Part. 1338.93
2/18/88 Comp. 759.83
$2098.76

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 53939 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87553
EXPENSE CODE ▶ 10

JOB COST

NWMAR126151

VENDOR

COLUMBIA BANDING 17260 (1)
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/08/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/08/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
013	0733	21	LFT		5/8" X 1" FBRGLSS PIPE COVER FOR 1/2" COPPER PIPE	0.6400		13.44
014	0733	36	LFT		1/2" X 1" FBRGLSS PIPE COVER	0.6400		23.04
015	0733	18	LFT		3/4" X 1" FBRGLSS PIPE COVER	0.7300		13.14
016	0733	6	LFT		1-1/2" X 1" FBRGLSS PIPE COVER	0.9100		5.46
017	0711	6	LFT		3/4" X 1" FBRGLSS PIPE COVER	0.7300		4.38
018	0711	45	LFT		1/2" X 1" FBRGLSS PIPE COVER	0.6400		28.80
019	0711	40	LFT		5/8" X 1" FBRGLSS PIPE COVER FOR 1/2" COPPER PIPE	0.6400		25.60
020	0711	39	LFT		3/4" X 3/4" RUBBER PIPE COVER	0.6400		24.96
021	0716	50	LFT		5/8" X 1" FBRGLSS PIPE COVER FOR 1/2" COPPER PIPE	0.6400		32.00
022	0716	18	LFT		1" X 1" FBRGLSS PIPE COVER	0.7400		13.32
023	0716	15	LFT		1/2" X 1" FBRGLSS PIPE COVER	0.6400		9.60
024	0730	24	SFT		1/2" FLAT RUBBER	0.7900		18.96
025	0730	12	SFT		3/4" FLAT RUBBER	1.1500		13.80

CONFIRMED MARK (503) 284-9395
PIPE COVERING
PAGE 2

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53939 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87553
EXPENSE CODE ▶ 10

JOB COST

NWMAR126152

VENDOR

COLUMBIA BANDING
665 N. TILLAMOOK STREET
PORTLAND, OR 97227

17260 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN/BRYAN	06

DATE 2/08/88
TERMS
F.O.B.
SHIP VIA WILL CALL
DUE DATE 2/08/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
026	0739	24	SFT		3/4" FLAT RUBBER	1.1500		27.60
027	0739	12	SFT		1/2" FLAT RUBBER	0.7900		9.48
028	0804	48	SFT		3/4" FLAT RUBBER	1.1500		55.20
029	0804	12	SFT		1/2" FLAT RUBBER	0.7900		9.48
030	0718	52	GAL		ARABOL ADHESIVE OR EQUAL	9.0000		468.00
031	0713	2	RLL		3M 1" BLACK TAPE	2.2600		4.52
032	0711	2	RLL		3M 1" BLACK TAPE	2.2600		4.52
033	0730	1	RLL		3M 1" BLACK TAPE	2.2600		2.26
034	0739	1	RLL		3M 1" BLACK TAPE	2.2600		2.26
035	0804	2	RLL		3M 1" BLACK TAPE	2.2600		4.52
036	0718	15	GAL		FOSTERS 85-20 ADHESIVE	18.2500		273.75

NORTHWEST MARINE IRON WORKS

CONFIRMED MARK (503) 284-9395 2,083.42

PIPE COVERING
PAGE 3

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO. ▶ 53939 -

SHOW THIS NUMBER ON INVOICE

BY MIGAS
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 87553
EXPENSE CODE ▶ 10

JOB COST

NWMAR126153

VENDOR

HUBER SALES & SERVICE, INC. 37320 (1)
1313 N.W. 17TH AVE.
PORTLAND, OR 97209

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/10/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DELIVER
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0608A	1	LOT		(3 EA.) AIR FLASK'S CHARGE TO 1800-2000 PSI & CERTIFY #4 LIFEBOAT	90.0000		90.00

NORTHWEST MARINE IRON WORKS

CONFIRMED BOB (503) 227-6688

AIR FLASKS

PAGE 1

2/29/88 90.00

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53938 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89537
EXPENSE CODE ▶ 10

JOB COST

NWMAR126154

VENDOR

NORTHWEST TESTING LABORATORY 55650 (1)
P.O. BOX 17126
PORTLAND, OR 97217

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/10/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA W/C
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-83-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0609	6	EA		BOTTLES OF HYDRAULIC FLUID. PARTICLE COUNT ONLY	105.00		630.00
					STB STORES CRANE			
		CONFIRMED HOWARD HOMES			(503) 289-1778			630.00

2/24/88 bal. 39.90
2/29/88 Comp. 630.00
2/29/88 bal. 630.00

NORTHWEST MARINE IRON WORKS

TEST

PAGE 1

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53934 -

SHOW THIS NUMBER ON INVOICE

BY GIL
BUYER AUTHORIZATION

BY R. W. HUBET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89534
EXPENSE CODE ▶ 10

JOB COST

NWMAR126155

VENDOR

FRICTION PRODUCTS MFG. CO. 29710 (1)
1001 S. E. MAIN ST.
PORTLAND, OR 97214

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
MILLER	14

DATE 2/08/88
TERMS NET 30
F.O.B. SHOP
SHIP VIA DELIVER
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0521A	1	LOT		(20 EA.) CONE TYPE BRAKE SHOES	325.00		325.00
					CONFIRMED JERRY/MARY (503) 234-5461			325.00
					BRAKE SHOES			
					PAGE 1			

3/8/88 324.25

NORTHWEST MARINE IRON WORKS

*****

NORTHWEST MARINE IRON WORKS

BY GIL
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89525
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53921 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126156

VENDOR

R L BALLINGER CO.
911 WESTERN AVE.
SEATTLE, WA 98104

07290 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
W HALL/HUGET	11

DATE 2/08/88
TERMS
F.O.B. TEXAS
SHIP VIA MTR FRT
DUE DATE 2/16/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED D-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0711	1	EA		DOOR, WEATHERTIGHT, 36" X 66" LH, ABS, DRAWING	550.00		550.00
002	0711	1	LOT		MOTOR FREIGHT		75.0000	75.00
							3/11 addl 150.70	
							3/17 comp 550.00	
		CONFIRMED RICK			(206) 622-8176			625.00
					WT DOOR			
					PAGE 1			

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY HUGET
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 85981
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53901 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126157

VENDOR

CONSOLIDATED SUPPLY 18490 (1)
P.O. BOX 5788
PORTLAND OREGON 97228

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NORM	07

DATE 2/08/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA UPS BLUE
DUE DATE 2/12/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727D	10	EA		MIXING VALVES MCC POWERS #T-423	193.50		1,935.00
002	0727D	10	PR		CHECK STOPS FOR ABOVE	36.9000		369.00
003	0727D	1	LOT		EXPEDITING CHARGE	20.0000		20.00

2/24/88 2379.00

NORTHWEST MARINE IRON WORKS

CONFIRMED DOUG (503) 620-7050 2,324.00

SHOWER VALVES
PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53888 –

SHOW THIS NUMBER ON INVOICE

JOB COST

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUSET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89026
EXPENSE CODE ▶ 10

NWMAR126158

VENDOR

ALASKAN COPPER & BRASS 02720 (1)
P.O. BOX 5067
PORTLAND, OR 97228

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
BENNETT	07

DATE 2/08/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/08/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0727D	40	LF		1/2" T-316 SCH 40 S.S. PIPE	5.6800		227.20
		CONFIRMED DENNIS			(503) 238-7171 S.S. PIPE PAGE 1		2/09	227.20

NORTHWEST MARINE IRON WORKS

BY PUTNAM
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 77797
EXPENSE CODE ▶ 10

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER
NO. ▶ 53884 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126159

VENDOR

FAR WEST OFFICE SYSTEMS 27990 (1)
5105 S.E. 25TH.
PORTLAND, OREGON 97202

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN	02

DATE 2/10/88
TERMS N30
F.O.B. ORIGIN
SHIP VIA WILL CALL
DUE DATE 2/11/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
001	0762	2	EA		FILE CABINET, HON312, GREY 2 DWR. LEGAL, 18W X 26D OVERALL. (MCM-CARR 4952T3 OR EQUAL)	147.25		294.50
					WILL CALL 2 PM 2/11/88			
					CONFIRMED DICK (503) 239-4404			294.50
					FILE CABINET			

PAGE 1

7/22/88 294.00

NORTHWEST MARINE IRON WORKS

NORTHWEST MARINE IRON WORKS

BY PAT MCGUIRE
BUYER AUTHORIZATION

BY R. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 89896
EXPENSE CODE ▶ 10

PURCHASE ORDER
NO. ▶ 53877 -
SHOW THIS NUMBER ON INVOICE

JOB COST

NWMAR126160

VENDOR

CASCADE COMMERCIAL CO.
3150 N.W. 31ST
PORTLAND, OREGON 97210

14460 (1)

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
DAHLEN	02

DATE 2/10/88
TERMS NET 30
F.O.B. ORIGIN
SHIP VIA W/C
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0718	1	LOT		STEEL SHELVING WITH BIN FRONTS 6 EA. SECTIONS 36" X 18"X 84" 3 EA. SECTIONS 36" X 24" X 84" 700# CAPACITY	1,210.00		1,210.00
					BIN FRONTS DELIV. 2/16			

NORTHWEST MARINE IRON WORKS

CONFIRMED MARY ( ) 228-0000

STL SHELVES
PAGE 1

2/29

1,210.00

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53876 -

SHOW THIS NUMBER ON INVOICE

BY MCGUIRE — BUYER — AUTHORIZATION

BY R. W. HUGET, JR. — PURCHASING AGENT — AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80145
EXPENSE CODE ▶ 10

JOB COST

NWMAR126161

VENDOR

VANCOUVER WELDING SUPPLY CO. 81208 (1)
P.O. BOX 244
VANCOUVER, WA 98666

JOB NUMBER ▶ 3251

ORDERED FOR	CRAFT
NUTTER/JAMES	02

DATE 2/09/88
TERMS NET 30
F.O.B. DEST
SHIP VIA VENDOR
DUE DATE 2/10/88

ENTRY NUMBER	JOB ITEM	QUANTITY	UNIT	PART NUMBER	DESCRIPTION	CONFIRMED UNIT PRICE	ESTIMATED PRICE	EXTENDED PRICE
					USNS OBSERVATION ISLAND			
					XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX "THIS ORDER CERTIFIED DO-A3 UNDER U.S. GOV'T PRIME CONTRACT #N62383-88-C-004. THE PROVISIONS OF DPAS REGULATION (15 CFR 350) MUST BE FOLLOWED. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
001	0202D	2	EA		72CF BTLS 100% ARGON	100.25		200.50
002	0202D	1	EA		92CF BTLS 100% ARGON	100.25		100.25

NORTHWEST MARINE IRON WORKS

CONFIRMED LYLE (503) 283-1160 ARGON 2/17/88 300.75

PAGE 1

*****

NORTHWEST MARINE IRON WORKS

PURCHASE ORDER

NO.▶ 53872 -

SHOW THIS NUMBER ON INVOICE

JOB COST

BY MCGUIRE
BUYER AUTHORIZATION

BYR. W. HUGET, JR.
PURCHASING AGENT AUTHORIZATION

M.L.S./R.F.P. NO. ▶ 80143
EXPENSE CODE ▶ 10

NWMAR126162