REDACTED VERSION

HERCULES CASE SUMMARY
CASE NUMBER CR-FY97-058

8000828

Case: Hercules

Case number: CR-FY97-058

TNRCC Office: Region 12 - Houston

Time Period Covered: May 12, 1997 to October 9, 1997

Case Synopsis: TNRCC Air Compliance Section Investigator Becky Ohler reported that Hercules Marine Services Corporation (Hercules), a barge cleaning facility, falsified records required to be maintained to show compliance with rules under Texas Clean Air Act pertaining to degassing or cleaning of marine vessels and failed to control vapor emissions from these activities as required by these rules. The suspect Hercules ex-Manager Larry Ballinger admitted instructing the Hercules Cleaning Superintendent Claudio Duarte to write the wrong information on these records to cover up what material had actually been degassed or cleaned from the barges in violation of air regulations by Hercules for BASF at the Hercules facility in Freeport, Brazoria County, Texas. BASF has made available records that show Hercules cleaned 12 barges on 11 separate dates over the time period of November 30, 1996, until April 27, 1997. Cyclohexane was degassed from these barges in violation of the Texas Clean Air Act rules because Hercules failed to control vapor emissions from this activity. Hercules falsified records for 10 of these 12 barges on nine separate dates showing that normal butanol was cleaned or degassed from the barge when in fact cyclohexane was the actual chemical. Finally, on or about May 5, 1997, Hercules tampered or fabricated physical evidence when Larry Ballinger presented falsified records as described above to Ohler when she was conducting an official TNRCC complaint investigation Table I lists the violations and dates.

INVESTIGATION SUMMARY

The Texas Natural Resource Conservation Commission (TNRCC) rules under 30 Texas Administrative Code (TAC) Chapter 115 address Control of Air Pollution From Volatile Organic Compounds. These rules include sections 30 TAC 115.541 through 30 TAC 115.549 subtitled Degassing or Cleaning of Stationary, Marine, and Transport Vessels. The 30 TAC 115.542(b)(1) - Control Requirements establishes that for all persons in Brazoria County, the following control requirements shall apply to marine vessels: No person shall permit the degassing or cleaning of a marine vessel containing volatile organic compounds (VOC) unless the vapors are controlled by a vapor control system. The 30 TAC 115.541(b)(1) - Emissions Specifications establishes that for all persons in Brazoria County, the following emission specifications apply to degassing during or in preparation of cleaning for all marine vessels ...which have a nominal capacity of 10,000 barrels or more and contain VOCs: No person shall degas or clean a tank that carried a VOC with a vapor partial pressure greater than or equal to 0.5 pounds per square inch absolute unless the vapors are processed by a vapor control system. The 30 TAC 115.546 - Record

Keeping Requirements establish that a record must be maintained and made available upon request by TNRCC for at least two years of the type and number of marine vessels which are degassed or cleaned at the affected facility, the chemical name and estimated liquid quantity of VOC in each vessel prior to degassing or cleaning, and the chemical name and estimated liquid quantity of VOC removed from each vessel. The 30 TAC 115.49(a) - Counties and Compliance Schedules established that all affected persons in Brazoria County shall be in compliance the Degassing or Cleaning of Stationary, Marine, And Transport Vessels as soon as practicable, but no later than November 15, 1996 (See attachment 1) .

Hercules Marine Services Corporation (Hercules) Vice President Thomas E. Horde signed and dated October 29, 1996, the Standard Permit Registration Form P1-1S. This document was submitted to TNRCC for a vapor collection and incineration system that was to be installed at Hercules. In this form it is stated that the project for which this registration is made will not in any way violate any provision of the Texas Health and Safety Code Chapter 382, Texas Clean Air Act (See attachment 1).

The TNRCC sent Horde a response dated November 13, 1996, to the Standard Permit Registration form. The response letter provided approval for the proposed project to install a combustor to control barge degassing and cleaning emissions (See attachment 1).

Hercules Environmental consultant Dr. Harry Walker advised that he worked on the Standard Permit Registration form referenced above and that he had to get Horde to sign it as an officer of the corporation before it could be submitted to the TNRCC. He advised that he initially worked on this project in about 1994 when Hercules hired him to apply for a Construction Permit for their facility. He advised this Construction Permit application included the thermal oxidizer as a vapor control device for degassing barges. He advised that Hercules decided to not get the Construction Permit and instead continue operating as they always had until the compliance date in November 1996 arrived. He advised that in about 1994 he told Tom Horde and Tom Seward, in general, about the requirements to control volatile emissions from degassing barges that were going to come into effect in a few years. He advised at that time they had committed to the purchase of a thermal oxidizer and it was being constructed for them.

Walker said that around the time of November 1996, he was contacted by Larry Ballinger about finalizing the Construction Permit application. Walker advised that it was determined Hercules could merely submit a Standard Permit Registration with the required information for the thermal oxidizer rather than the Consruction Permit. He advised that Hercules did this and it allowed them to go forward with installation and operation of this unit. Walker advised that in late 1996 he went to Hercules, in Freeport, and observed the thermal oxidizer was still sitting on timbers and had not been installed. Walker says he told Ballinger at that time that until the thermal oxidizer was hooked up and operating to control emissions from degassing and cleaning barge at Hercules, the air regulations would not allow Hercules to remove material with a vapor pressure greater than 0.5 psia. Walker says that he told Ballinger the thermal oxidizer would not be a good control device to handle cyclohexane. Walker advised that he told Ballinger it would take

several days to burn off the cyclohexane vapors when degassing the barges. Walker said that cyclohexane was important to Hercules because a lot of their barge business involved this material (See attachment 2).

On December 5, 1996, TNRCC Region 12 - Houston office Air Compliance Section Investigators Becky Ohler and Carol Harkins conducted a state implementation plan (SIP) inspection at Hercules. This was a state inspection for compliance with state and federal air rules and regulations. Ohler prepared a SIP inspection report pursuant to her inspection at Hercules. In her report Ohler notes that Larry Ballinger represented Hercules during the inspection as co-Manager of Hercules (See attachment 1).

In the SIP report section III. TNRCC Regulatory Review and Compliance Status the 30 TAC 115.541 and 542 rules are listed. Under these regulation headings in the report Ohler makes written comments in which she notes that to stay in compliance with these rules Hercules has not cleaned or degassed any marine vessel which last contained a material with a vapor pressure greater than 0.5 psia since the compliance date of November 15, 1996. Ohler notes that Hercules will be installing a thermal oxidizer as a vapor control system and that Ballinger told her this control device will be used as required and that a vacuum will be pulled on a barge prior to opening of any hatches. Ohler notes that Hercules is only cleaning barges with a vapor pressure less than 0.5 psia until the vapor control system is installed and is therefore exempt from the control requirements. In this section of the SIP report Ohler references attachment J - Barge Cleaning Tickets. Ohler advised that she asked Ballinger to provide records that proved Hercules was only cleaning barges with vapor pressure > 0.5 psia. She advised that Ballinger faxed her the referenced tickets. These barge cleaning records are shown to have been faxed to Ohler on December 12, 1996, by Ballinger The records are for a barge cleaned on November 15, 1996, and a barge cleaned on December 6, 1996. Both of these tickets show that material with a vapor pressure of < 0.5 psia was cleaned or degassed from barges at Hercules after the compliance date of November 15, 1996. The records show that the barges came from BASF in Freeport (See attachment 1).

In the SIP report, section X. Production, the amount of materials that were removed from barges in 1996 at Hercules and sold as products are listed. Bills of lading are referenced and show that on or about February 9, 1996, Hercules sold 3,600 gallons of cyclohexane as gasoline blend stock. Larry Ballinger signed as the shipper of this material for Hercules (See attachment 1).

In the SIP report, section XII. Toxics, the materials likely to be in barges cleaned and degassed at Hercules are referenced in an attachment. The attachment is a document provided by Ballinger which consists of a list of chemicals grouped by their volatility. The list includes an "extreme volatility > 0.65 psia" group. The extreme volatility group includes cyclohexane listed to have a 2.051 psia vapor pressure at 80 degrees Fahrenheit (See attachment 1).

BASF is located in the same area as Hercules in Freeport, Texas. BASF is Hercules' main customer. ITS Caleb Brett (ITS) is an independent inspection company that verifies material in

tanks and on barges for BASF. ITS conducts a visual inspection of barges on behalf of BASF after the barges have been cleaned at Hercules. A review of BASF records and ITS records provided to TNRCC Special Investigator Brian Lynch show that a barge (ETT 112) last containing cyclohexane was being transported to Hercules on December 5, 1996, and that it was degassed at Hercules on December 6, 1996. The BASF and ITS records also show that on November 30, 1996, a barge (ETT110) last containing cyclohexane was degassed at Hercules. The Hercules Barge Cleaning Report for the ETT110 barge cleaned on November 30, 1996, notes that the material cleaned from this barge at Hercules was cyclohexane. The December 6, 1996, Hercules Barge Cleaning Report notes that the material cleaned from the barge ETT 112 on this date at Hercules was N-Butanol when in fact it was cyclohexane according to BASF and ITS records (See attachment 3).

The December 6, 1996, Hercules report is noted to have been completed by Claudio Duarte. Duarte is the Hercules Barge Cleaning Superintendent. Duarte admitted to SI Lynch and EPA Special Agent Andy Yee that he wrote the wrong chemical name on Hercules Barge Cleaning Reports. Duarte said that Ballinger told him to write down N-Butanol on the barge cleaning report instead of cyclohexane. Duarte said that when the barges arrived at the Hercules dock, he went out and checked the barge by opening the hatch and visually looking at how much material is in the tanks. He advised that by odor he can identify the material. He said that Ballinger also checked on the incoming barge and wanted to know how much material was left on the barge and what it was. Duarte says more than once he told Ballinger the barge contained cyclohexane and Ballinger told Duarte not to write cyclohexane on the barge cleaning reports, but instead to note that Normal Butanol was cleaned out of the barges (See attachment 4).

BASF and ITS records show that Hercules degassed the additional following barges from BASF which last contained cyclohexane on the listed dates:

1.	ETT115	12-17-96
2.	ETT112	1-10-97
3.	ETT110	2-9-97
4.	ETT115	2-18-97
5.	ETT113	2-22-97
6.	ETT114&112	3-6-97
7.	ETT112	4-21-97
8.	ETT113	4-23-97
9.	ETT112	4-27-97

Hercules Barge Cleaning Reports and Hazard Communication Standard documents inaccurately note butanol as the last material contained on the barges listed above on the dates noted.

ITS inspector Charlie Bennett advised that he noticed the discrepancy between what Hercules noted on their barge cleaning reports and what was actually the last material on the barge. He advised he knew the last material on certain barges was cyclohexane when Hercules had noted

butanol. Bennet said that he knew the actual last material carried on certain barges to be cyclohexane because ITS inspected the cargo of these barges before they were unloaded and then delivered to Hercules for cleaning and degassing. Bennett advised that he confronted Hercules representative Juan Rivera about the discrepancy and Rivera indicated he did not know why the wrong information was placed on the barge cleaning reports (See attachment 3).

Juan Rivera gave a statement to Lynch and Yee in which he said that he knew the wrong information was being put on the barge cleaning reports and hazardous communication standard documents and that he asked Claudio Duarte about it. Rivera said that Duarte told him he was following Ballinger's orders. Rivera said that he did not know why the wrong information was being written on these documents (See attachment 5).

BASF Logistics Coordinator Robert Peters advised that he is sure Larry Ballinger knew Hercules was receiving cyclohexane barges from BASF to be cleaned because he personally called him and told him so on more than one occasion during the time period of November 1996 until May 1997. When asked if he was sure Ballinger knew Hercules was receiving cyclohexane barges to be cleaned during this time period Peters stated, "no doubt about it" (See attachment 3).

On April 14, 1997, the TNRCC Region 12 Air Section received a complaint that Hercules was degassing barges that lasted contained material with a vapor pressure > 0.5 psia (See attachment 1).

On May 5, 1997, TNRCC Air Compliance Section Investigators Becky Ohler and Faye Lu conducted a complaint investigation at Hercules. Ohler advised that she met with Larry Ballinger at Hercules and told him that she had received a complaint that Hercules had cleaned barges not allowed by the regulations. Ohler advised that Ballinger provided records for inspection that showed all materials cleaned at Hercules were materials with a vapor pressure > 0.5 psia. Ohler advised she next went to BASF and reviewed their records and found that the Hercules records were not accurate. She noted certain barges last containing cyclohexane had been cleaned at Hercules when the Hercules records noted these same certain barges lasted contained butanol. Ohler returned to Hercules and BASF on May 7, 1997, and obtained copies of the records she had reviewed on May 5, 1997 (See attachment 1).

BASF records show that on May 5, 1997, the ETT113 barge last contained cyclohexane and was at Hercules being cleaned. BASF records show that on May 6, 1997, the ETT113 barge had been moved from Hercules to Texas Boat and Barge where it was being cleaned (See attachment 3).

On May 13, 1997, Larry Ballinger attended a meeting with TNRCC Air Program personnel at the TNRCC Region 12 office. Hercules corporate attorneys attended the meeting and provided documents to Ohler concerning the violations being discussed (See attachment 6). After the meeting Lynch interviewed Ballinger. Ballinger admitted telling Duarte to write the wrong information on the barge cleaning reports to cover up the fact that Hercules had been cleaning cyclohexane barges in violation of the air regulations (See attachment 7).

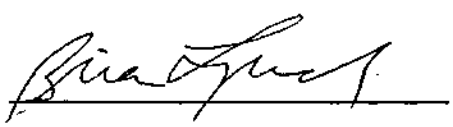
Pursuant to the May 5, 1997 complaint investigation, the TNRCC is in the process of administrative enforcement action against the Hercules corporatioon. This action is currently pending on seven of the above noted 11 dates when Hercules failed to control emissions from barge degassing at their facility (See attachment 8)

Under the Texas Health and Safety Code, Title 2. Health, Subtitle C. Air Quality, Chapter 382. Clean Air Act, Subchapter D. Penalties and Enforcement, Section .091, Criminal Offenses -

(a) A person commits an offense if the person:
(1) intentionally or knowingly, with respect to the person's conduct, violates:
(E) a rule under this chapter;
(3) intentionally or knowingly makes or causes to to be made any false material record or other document required to be maintained by a rule adopted under this chapter.
(b) Each day a violation under this section occurs is a separate offense.

Under the Texas Penal Code Section 37.09. Tampering with or fabricating physical evidence -
(a) A person commits an offence if, knowing that an investigation or official proceding is pending or in process, he:
(2) makes, presents, or uses any record, document, or thing with knowledge of its falsity and with intent to affect the outcome of the investigation or official proceeding.

Evidence to show offenses under the Texas Penal Code and Texas Health and Safety Code sections noted above for the eleven dates listed in Table I has been compiled as it relates to each of the 21 alleged offenses (See attachment 9).

Signed : 

Date Prepared: October 9, 1997

HERCULES MARINE SERVICES CORPORATION
INVESTIGATION SUMMARY
ATTACHMENT SHEET

ATTACHMENT 1	TNRCC AIR COMPLIANCE INVESTIGATOR BECKY OHLER REPORT OF INTERVIEW - SEE ATTACHMENT SUMMARY SHEET
ATTACHMENT 2	HERCULES ENVIRONMENTAL CONSULTANT DR. HARRY WALKER REPORT OF INTERVIEW
ATTACHMENT 3	BASF LOGISTICS COORDINATOR ROBERT PETERS REPORT OF INTERVIEWS; ITS INSPECTOR CHARLIE BENNETT REPORT OF INTERVIEW - SEE ATTACHMENT SUMMARY SHEET
ATTACHMENT 4	CLAUDIO DUARTE DRAFT STATEMENT
ATTACHMENT 5	JUAN RIVERA STATEMENT
ATTACHMENT 6	HERCULES DOCUMENTS PROVIDED BY HERCULES CORPORATE ATTORNEYS
ATTACHMENT 7	HERCULES EX-MANAGER REPORT OF INTERVIEW
ATTACHMENT 8	TNRCC ADMINISTRATIVE ENFORCEMENT ACTION
ATTACHMENT 9	TEXAS HEALTH AND SAFETY CODE AND PENAL CODE LIST OF 21 OFFENSES

Case:	Hercules
Case Number:	CR-FY97-058
Person Interviewed:	Becky Ohler
TNRCC Office:	Region 12 - Houston
Location:	TNRCC Region 12 office
Date/Time:	May 12, 1997/12:43 pm

On May 12, 1997, TNRCC Special Investigator Brian Lynch interviewed TNRCC Air Program Inspector Becky Ohler at the TNRCC Region 12 office. Ohler advised that she received a telephone call from John Eldridge, an attorney representing Hercules Marine Services Corporation (Hercules), requesting a meeting to present information to the TNRCC. She advised that Eldridge told her Larry Ballinger would also be present for the meeting and that it would be held either Wednesday afternoon or Thursday morning.

Ohler advised that Eldridge called to set up the meeting pursuant to a complaint she was investigating against the Hercules facility located at 906 Marlin, Freeport, Brazoria County, Texas. She advised that the TNRCC Region 12 Air Program received a complaint on April 14, 1997 **(See attachment 1 - 4/14/97 Complaint)**, from an individual alleging that Hercules was cleaning barges which last contained material with a vapor pressure greater than 0.5 pounds per square inch absolute (psia) and that they were not using the air emission controls required by TNRCC Regulation V **(See attachment 2 - TNRCC Rule, 30 Texas Administrative Code Chapter 115)**. Ohler advised that the complaintant told her that the barges came from BASF, in Freeport, Texas, and that someone at BASF provided information concerning the types of material that were being sent from BASF to Hercules. She advised that complaintant told her the materials coming from BASF included cyclohexane and that cyclohexane has a vapor pressure greater than 0.5 psia. Ohler advised that the complainant told her that Hercules did not have a vapor control system required by TNRCC Regulation V. Ohler advised that on April 16, 1997, the complaintant provided her a list of barges that had allegedly been cleaned at Hercules on specific dates and that one of the compounds contained in the barges was listed to be cyclohexane **(See attachment 1)**. She advised that the vapor pressure of cyclohexane was greater than 0.5 psia and that the cleaning of a barge which last contained cyclohexane would require the use of a vapor control system under TNRCC Regulation V to prevent unauthorized air emissions from thisarge cleaning activity.

Ohler advised that the TNRCC Region 12 Air Program also received a complaint from an individual on April 28, 1997, alleging bad odors coming from a certain barge numbered ET112 at Hercules on April 27, 1997, which contained either aniline or cyclohexane **(See attachment 3 -**

4/28/97 Complaint). She advised that the April 28, 1997 complaint was substantiated, as far as the allegation that a barge last containing cyclohexane was being cleaned at Hercules on April 27, 1997.

Ohler advised that she went to Hercules on the morning of May 5, 1997, and that Fay Lu of the TNRCC Region 12 Air Program accompanied her on the complaint investigation. Ohler advised that she met Hercules Manger Larry Ballinger at Hercules and told him that she had received a complaint that Hercules had cleaned barges not allowed by TNRCC Regulation V. She advised that Ballinger pulled Hercules records for the dates February, March, and April 1997, and provided the records to Ohler for inspection. She advised that she inspected records of barges cleaned at Hercules for all but two of the barges listed on the information provided by the informant on April 16, 1997. Ohler advised that the Hercules records substantiated that all the barges which the complaintant had told her had been cleaned a Hercules on the dates indicated had in fact been cleaned at Hercules on the dates indicated by the complaintant. Ohler further advised that she discussed the two missing barges. The first barge Number ETT 112 was alleged to have been cleaned on February 18, 1997. She advised that the Hercules records indicated that the barge ETT 112 was stripped and blow dried on February 12, 1997. Ohler advised that Ballinger could find no Hercules record concerning the second barge numbered ETT 115 alleged to have been cleaned on April 16, 1997, except for the Hercules record which indicated this barge was deballasted on April 10, 1997.

Ohler advised that her inspection of the records Ballinger produced for inspection indicated that Hercules was in compliance with the TNRCC Regulation V. She advised that the records showed the material that Hercules had cleaned from barges a their facility during the months of February, March, and April 1997, to be normal butanol, aniline, and caprolcatam extract and that all of these barges came from BASF in Freeport, Texas. Ohler advised that she logged in her TNRCC inspection notebook what the Hercules records showed to be the materials cleaned at Hercules during the time frame listed above **(See attachment 4)**. She advised that these records reflected that all materials cleaned from barges at Hercules had a vapor pressure greater than 0.5 psia and were exempt from vapor control requirements of TNRCC Regulation V. Ohler advised that the following information was noted in the Hercules barge cleaning records which she inspected:

1. OSHA document noting the compound in the barge and discussing dangers of the chemical which was signed by employees that worked on cleaning the barge.
2. Barge cleaning report showing the chemical compound contained in the barge and when it was cleaned a Hercules.
3. Invoice noting how the barge was cleaned such as stripped and blow dried.

Ohler told Lynch the Hercules records looked good, that it appeared that Hercules was in compliance with TNRCC Regulation V, and that she and Fay Lu did not expect to find a problem of a conflict with the records at BASF.

Ohler advised that she and Faye Lu went to BASF on the afternoon of May 5, 1997, to continue

their complaint investigation and met L. L. Moore who set up a meeting for them with Mark Hana, BASF Technical Services Representative, and Robert Peters, BASF Logistics Coordinator. Ohler advised that she informed the BASF representatives that the TNRCC had received a complaint against Hercules about serious charges that Hercules was cleaning chemical compounds from barges that they were not supposed to be handling and that the Hercules records reflected that they had been cleaning barges from BASF. Ohler advised she then told the BASF representative that she wanted to review BASF records concerning the barges Hercules had cleaned for BASF. Ohler advised that the BASF representatives were very cooperative.

Ohler advised that she and Lu reviewed the BASF records for BASF barges cleaned at Hercules during the time frame of February, March, and April 1997. She advised that she found 16 barges had been cleaned at Hercules during this time frame and of these 16 barges eight contained cyclohexane. Ohler advised that she logged notes concerning these records and then left BASF **(See attachment 4)**.

Ohler advised that later that afternoon she compared her notes for the BASF records to her notes for the Hercules records and determined that of the eight barges which BASF records showed contained cyclohexane, the Hercules records showed that all eight of these barges contained normal butanol.

Ohler told Lynch that on May 6, 1997, she called and left a message to Mark Hanna of BASF telling him that she wanted to make copies of the records which she had reviewed on May 5, 1997.

Ohler advised that on May 7, 1997, she went back to Hercules, and met Hercules secretary Gloria Milsap. Milsap allowed Ohler to copy the records she had previously reviewed **(See attachment 5 - Hercules records provided 5/7/97)**.

Ohler advised that she proceeded to BASF, contacted Robert Peters secretary Suzette Johnson, and requested to copy the documents which she had called and requested on May 6, 1997. Ohler advised that Johnson brought eight documents to her **(See attachment 6 - BASF records provided 5/7/97)**. Ohler advised that when she reviewed the documents she observed that the documents did not indicate the chemical compound name. Ohler advised that Johnson told her that anytime it is noted on the document Citgo / Phillips / Koch / Huntsman / Chevron it is equivalent to noting that the barge contained cyclohexane becuse these were the companies from whom BASF purchased cyclohexane. Ohler advised that Johnson also told her that anytime it is noted on the document "strip and blow dry" this indicates that the barge contained cyclohexane because this is the prescribed method of cleaning a barge which last contained cyclohexane. Ohler advised that when she met with Robert Peters he showed her a document which indicated the method of cleaning to be used for specific chemicals to be cleaned out of barges.

Ohler told Lynch that while she was at Hercules meetin with Ballinger, there was a record which was not clear as to what was on a particular barge. She advised that Ballinger telephoned

Johnson at BASF and asked her what was in this certain barge on the certain date in question . Ohler advised that Johnson was able to answer Ballinger's question and it was obvious to her that Ballinger and Johnson had discussed barge cleaning jobs before because they sounded familiar with one another.

Ohler advised that the TNRCC Regulation V came into effect on November 15, 1996. She advised that she conducted a state implementation plan (SIP) air inspection at Hercules in December 1996 **(See attachment 7 - 1996 State Implementation Plan Inspection)**. She advised that she checked Hercules records for all barges cleaned during a one to two week period in December 1996, to determine their compliance with TNRCC Regulation V. She advised that she also question Larry Ballinger during the inspection about how Hercules would comply with TNRCC Regulation V. Ohler said that Ballinger told her that Hercules planned to install a thermal oxidizer as a control device that would burn vapors purged from the barge that was being cleaned and that this would allow them to clean barges containing chemical compounds with a vapor pressure greater than 0.5 psia. Ohler advised that Ballinger indicated to her that the thermal oxidizer would be in operation soon. Ohler advised that Ballinger told her that Hercules intended to comply with the TNRCC Regulation V barge cleaning rule by only cleaning barges that last contained chemical compounds with a vapor pressure less than 0.5 psia.

Ohler advised that she inspected the Hercules records and that the records indicated only chemical compounds with vapor pressure less than 0.5 psia were cleaned from barges at Hercules and, therefore, she found Hercules to be compliant with TNRCC Regulation V and documented this information in her December 1996 SIP.

Ohler advised that Hercules submitted a Regulation VI Construction Permit Application for the thermal oxidizer unit to the TNRCC **(See attachment 8 - Regulation VI Permit Application)**. She advised that the permit application was reviewed by TNRCC personnel and determined to be deficient, and the permit was never issued. She advised that Hercules decided to apply for a Regulation V standard permit instead of a Regulation VI Construction Permit **(See attachment 9 - Regulation V Permit)**. She advised that this allowed Hercules to install the thermal oxidizer control device required by TNRCC rules under a standard permit by merely notifying the agency of their activity.

Signed: Brian Lynch

Date Prepared: August 5, 1997

HERCULES MARINE SERVICES CORPORATION
BECKY OHLER MAY 12, 1997 REPORT OF INTERVIEW
ATTACHMENT SUMMARY SHEET

Attachment 1	April 14, 1997 Complaint
Attachment 2	TNRCC Rule, 30 TAC Chapter 115, effective November 15, 1996
Attachment 3	April 28, 1997 Complaint
Attachment 4	May 5, 1997 Becky Ohler TNRCC Log Book Notes
Attachment 5	Hercules records provided May 7, 1997
Attachment 6	BASF records provided May 7, 1997
Attachment 7	December 5, 1996 TNRCC State Implementation Plan Inspection Report
Attachment 8	May 3, 1994 Hercules Construction Permit Application
Attachment 9	October 29, 1996 Hercules Standard Permit

ATTACHMENT 1

TNRCC FIELD OPERATIONS COMPLAINT ENTRY FORM

Media Type*	A	Complaint No	129700791	Recvd By	reo1
Date Recvd	4/14/97	Time Recvd	1:30 am/pm pm	Priority*	4

Complainant's Info		County*	Brazoria 020
First/Last	Mickey Tiner	Title/Org	citizen
Address	P.O. Box 2017		
City	Freeport St Tx Zip 77542		
Phone	409 233-5539	Type Code* AR	Effect* G

Initial Problem

Hercules Marine Services is cleaning barges which last contained materials with a vapor pressure greater than 0.5 psia and is not using the controls required by TNRCC Regulation V. According to the complainant's sources approximately 3000 gallons of cyclohexane were removed from one of the storage tanks about a month ago. He said they would have had to clean 6 to 8 barges to accumulate that much. The vapor pressure is 1.83 psia. He has dates and barge numbers from barges cleaned at this facility, mostly from BASF, a nearby chemical facility. He will send a copy of this by fax tomorrow. The complainant stated that if Hercules' records do not show the same barges as being cleaned then the records at BASF should substantiatehis allegations. Approximately 10 to 15 barges from BASF are taken to Hercules to clean each month. Examples of materials cleaned with too high a vapor pressure are cyclohexane and butanol. In addition, analine and caprolactan extract have been cleaned which are Hazardous Air Pollutants.

Location	Freeport BASF CONTACT Edwin Bergmann 409 238-6629	Company	Hercules Marine Services
Complaining	1	Date Occrd 2/18/97, 2/22/97, 4/9/97	Form* t	Nature* x
Frequency*	i	Confidential y	ReferBy*	ReferTo*
Invest#		Source#	Name	
Contact Date		TIN	SIC Code	Investigator reo
Invest Date		Invest Time am/pm		Site Visit

Result of Investigation

Rules(s) Violated

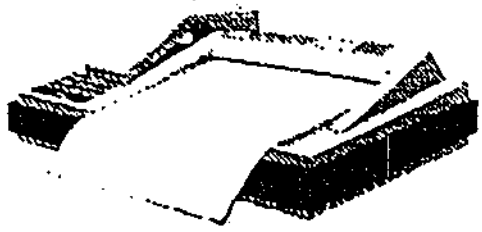
Samples Sent	Samples Returned

Date Complainant Notified of Commissioners Mtg/Formal Action	Date of Formal Action

Closure Comments

**Closure Code	Closure Date	Final Letter	Revised: 3/18/94

FAX



TEXAS MOTOR FREIGHT
P.O. BOX 2017
FREEPORT, TX.
77542

Date 04 / 10 / 97

Number of Pages Including Cover: 1

OUR FAX: 409-233-5903

YOUR FAX: (713) 767 -3761

TO:
TNRCC
PRAVEEN DUGGAL
AIR PROGRAM

FROM:
MICKEY W. TINER

REMARKS:

PRODUCTS PRESENTLY KNOWN:

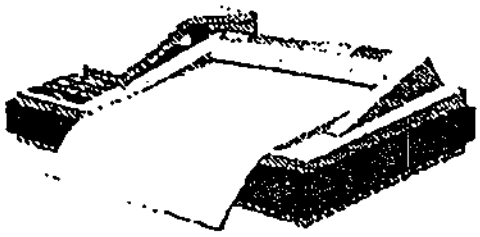
1. CYCLOHEXENE Cyclohexene
2. BUTANOL Butanol
3. ANILINE Aniline
4. CAPROLACTAM EXTRACT Caprolactan Extract] On the HAP LIST FOR MACT

05/10/97
ETT110

	BARGE ID
2/18/97	ETT 112
	ETT 115
2/22/97	ETT 113
4/9/97	ETT 114

IF THIS FAX IS NOT LEGIBLE OR IS INCOMPLETE, PLEASE GIVE US A CALL AT (409) 233-5554.
THANK YOU.

FAX



TEXAS MERGE & ROAL, PC
P.O. BOX 700
FREEPORT, TX 77541

Date 4 / 16 / 97

Number of Pages Including Cover: _____

OUR FAX: 409-233-5903

YOUR FAX: (713) 767 - 3761

TO:
Texas Natural Resource Conservation Comm.
Mr. Becky Ohler

FROM:
Michael Jones

CONFIDENTIAL

REMARKS:

Mr. Ohler
Please keep the information confidential

Thank you for your prompt attention & response to the attached information

IF THIS FAX IS NOT LEGIBLE OR IS INCOMPLETE, PLEASE GIVE US A CALL AT (409) 233-5539.
THANK YOU.

CONFIDENTIAL

April 16, 1997

Texas Natural Resource Conservation Commission
Ms. Becky Ohler

RE: Cleaning Facility *Not In* Compliance with TNRCC Regulations:

B A S F: Barges being cleaned at Hercules Offshore Yard / Freeport, Texas

	DATE:	BARGE NO.:
1.	2-18-97	ETT #112
2.	2/18/97	ETT #115
3.	2/22/97	ETT #113 (East Wind / foul odor noted)
4.	4/5/97	* No. not able to verify per M.W. Tiner
5	4/9/97	ETT #114
6.	4/10/97	ETT #110
7.	4/16/97	ETT #115

Products Cleaned at Hercules Offshore Yard for B A S F / Freeport :

1. *CYOLOHEXANE V.P. 1.83*
2. *BUTANOL*
3. *ANILINE (POISON)*
4. *CAPROLACTAN EXTRACT*

** Note: November 16, 1996 thru Mid February not logged*
March 1997 thru April 1, 1997 not logged

" HERCULES "

SOME
STUFF BASED ON
BY MICKEY TINER.

I HAVE SOME MORE
INFO. LET'S TALK
ABOUT IT WHEN
YOU GET A CHANCE

PXD

cyclohexane - 1.83 psia

John Eldridge
(b) (6) [redacted]

ATTACHMENT 2

Effective: August 16, 1996

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
Permanent Rule Adoption

Chapter 115
Control of Air Pollution From Volatile Organic Compounds

Subchapters C and G
§§115.214, 115.216, and 115.616

1. Purpose. This change transmittal provides the page(s) that reflect changes and additions to the Texas Natural Resource Conservation Commission (commission) Volume of Permanent Rules.

2. Explanation of Change. Under Rule Log Number 96120-115-AI, the commission adopts the amendments to §115.214 and §115.216, concerning Loading and Unloading of Volatile Organic Compounds (VOC), with changes to the proposal as published in the April 26, 1996 issue of the *Texas Register* (21 TexReg 3595). Under Rule Log Number 96117-115-AI, the commission adopts amendments to Subchapter G (Consumer-Related Sources; Consumer Products), §115.616, concerning Recordkeeping and Reporting Requirements. The amendments are adopted with changes to the proposed text as published in the May 7, 1996, *Texas Register* (21 TexReg 3908). Please replace the existing subchapters with the attached. Also attached is a Chapter 115 index reflecting any changes brought about by this adoption.

3. Effect of Change: The amendment to §115.214, concerning Inspection Requirements, removes the requirement to comply with the fugitive emissions monitoring requirements of §§115.352-115.357 and 115.359, and substitutes a requirement for an audio-visual-olfactory (AVO) walkthrough monitoring program for control of equipment leaks at gasoline terminals. The amendment to §115.216, concerning Monitoring and Recordkeeping Requirements, replaces the reporting and recordkeeping requirements applicable to §§115.352-115.357 and 115.359 with reporting and recordkeeping requirements for an AVO program. These revisions are in response to a petition for rulemaking, received by the agency on February 15, 1996.

   The Federal Clean Air Act (FCAA) requires states to adopt a Rate-of-Progress (ROP) State Implementation Plan (SIP) which achieves by November 15, 1996, in each moderate and above ozone nonattainment area, a 15% net-of-growth reduction in the VOC emissions level. The requirement for gasoline terminals to meet the fugitive emissions monitoring requirements of §§115.352-115.357 and 115.359, part of the 15% ROP SIP for the Houston/Galveston, Dallas/Fort Worth, and El Paso ozone nonattainment areas, was adopted by the commission in May, 1994. The commission originally added the instrument inspection requirement because, at the time, gasoline terminals were characterized by the same equipment leak emission factors as refineries. It was believed that an extension of the fugitive monitoring rule (which applies to refineries) to gasoline terminals would produce meaningful additional emission reductions that could be credited towards the 15% ROP requirements.

   During the development of the federal Maximum Achievable Control Technology (MACT) standards for gasoline terminals (promulgated December 14, 1994; 59 FR 64303), the United States Environmental Protection Agency (EPA) revised the requirement for control of equipment leak

fugitives from a quarterly instrument monitoring program to a monthly AVO program. The EPA relaxed the requirement in response to data submitted by the American Petroleum Institute which showed that: 1) emission factors for gasoline terminals using an AVO monitoring program are over 99% lower than the 1980 AP-42 refinery equipment emission factors that the EPA had used for the development of the proposed MACT standard, and 2) gasoline terminals that implemented an AVO program achieved essentially equivalent emission reductions as those terminals that used an instrument monitoring program.

The revision of §115.214(a)(5) removes the requirement for an instrument leak detection and repair program for the control of equipment leaks at gasoline terminals and replaces it with a requirement for an AVO inspection program. The revision will allow up to 15 days for repair of a leaking component. In addition, a minor revision to §115.214(a)(4)(E) corrects a rule reference. The revision of §115.216(a)(7) replaces the reporting and recordkeeping requirements applicable to §§115.352-115.357 and 115.359 with reporting and recordkeeping requirements for an AVO program.

The revisions of §115.214(a)(5) and §115.216(a)(7) make the Chapter 115 fugitive component monitoring requirements for gasoline terminals more consistent with the recently adopted federal MACT standards for gasoline terminals, the New Source Performance Standards for gasoline terminals, and allow for cost-effective implementation of this rule.

Chapter 115, Subchapter G ("consumer products rule") establishes VOC limitations, applicable statewide, for 24 categories of consumer products such as household cleaners, hairsprays, deodorants, and windshield washer fluid. Prior to this adoption, §115.616(a) of the consumer products rule required that each consumer product container or package display the day, month, and year of manufacture, or a code indicating that date, if it is manufactured after January 1, 1995. As an alternative to the product dating requirement, the current adoption allows manufacturers of regulated consumer products to display information on the product container or package, stating that the product was manufactured after the rule's applicable compliance date. The amendments offer additional flexibility and cost savings to regulated industries, particularly small businesses which might not otherwise provide date stamping, without affecting the agency's ability to effectively enforce the rule.

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SUBCHAPTER A : DEFINITIONS

§115.10. Definitions.

Unless specifically defined in the Texas Clean Air Act (TCAA) or in the rules of the Texas Natural Resource Conservation Commission (Commission), the terms used by the Commission have the meanings commonly ascribed to them in the field of air pollution control. In addition to the terms which are defined by the TCAA, the following terms, when used in this chapter, shall have the following meanings, unless the context clearly indicates otherwise.

Alcohol (used in offset lithographic printing) - For the purposes of complying with §§115.442, 115.443, 115.445, 115.446, and 115.449 of this title (relating to Offset Lithographic Printing), an alcohol is any of the hydroxyl-containing organic compounds with a molecular weight equal to or less than 74.12, (which includes methanol, ethanol, propanol, and butanol).

Alcohol substitutes (used in offset lithographic printing) - Nonalcohol additives that contain volatile organic compounds (VOC) and are used in the fountain solution. Some additives are used to reduce the surface tension of water; others (especially in the newspaper industry) are added to prevent piling (ink build-up).

Architectural coating - Any protective or decorative coating applied to the interior or exterior of a building or structure, including latex paint, alkyd paints, stains, lacquers, varnishes, and urethanes.

Automotive basecoat/clearcoat system (used in vehicle refinishing (body shops)) - A topcoat system composed of a pigmented basecoat portion and a transparent clearcoat portion. The volatile organic compound (VOC) content of a basecoat (bc)/clearcoat (cc) system shall be calculated according to the following formula:

$$VOC\ T_{bc/cc} = \frac{VOC_{bc} + (2 \times VOC_{cc})}{3}$$

where:

$VOC\ T_{bc/cc}$ is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, in the basecoat/clearcoat system;

VOC_{bc} is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, of any given basecoat; and

VOC_{cc} is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, of any given clearcoat.

Automotive precoat (used in vehicle refinishing (body shops)) - Any coating that is applied to bare metal to deactivate the metal surface for corrosion resistance to a subsequent water-based primer. This coating is applied to bare metal solely for the prevention of flash rusting.

Automotive pretreatment (used in vehicle refinishing (body shops)) - Any coating which contains a minimum of 0.5% acid by weight that is applied directly to bare metal surfaces to etch the metal surface for corrosion resistance and adhesion.

Automotive primer or primer surfacers (used in vehicle refinishing (body shops)) - Any base coat, sealer, or intermediate coat which is applied prior to colorant or aesthetic coats.

Automotive sealers (used in vehicle refinishing (body shops)) - Coatings that are formulated with resins which, when dried, are not readily soluble in typical solvents. These coatings act as a shield for surfaces over which they are sprayed by resisting the penetration of solvents which are in the final topcoat.

Automotive specialty coatings (used in vehicle refinishing (body shops)) - Coatings or additives which are necessary due to unusual job performance requirements. These coatings or additives prevent the occurrence of surface defects and impart or improve desirable coating properties. These products include, but are not limited to, uniform finish blenders, elastomeric materials for coating of flexible plastic parts, coatings for non-metallic parts, jambing clear coatings, gloss flatteners, and anti-glare/safety coatings.

Automotive three-stage system (used in vehicle refinishing (body shops)) - A topcoat system composed of a pigmented basecoat portion, a semitransparent midcoat portion, and a transparent clearcoat portion. The volatile organic compound (VOC) content of a three-stage system shall be calculated according to the following formula:

$$\text{VOC } T_{3\text{-stage}} = \frac{VOC_{bc} + VOC_{mc} + (2 \times VOC_{cc})}{4}$$

where:

VOC $T_{3\text{-stage}}$ is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, in the three-stage system;

VOC_{bc} is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, of any given basecoat;

VOC_{mc} is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, of any given midcoat; and

VOC_{cc} is the VOC content, in pounds of VOC per gallon (less water and exempt solvent) as applied, of any given clearcoat.

Automotive wipe-down solutions (used in vehicle refinishing (body shops)) - Any solution used for cleaning and surface preparation.

Bakery oven - An oven for baking bread or any other yeast-leavened products.

Batch (used in offset lithographic printing) - A supply of fountain solution that is prepared and used without alteration until completely used or removed from the printing process.

Beaumont/Port Arthur area - Hardin, Jefferson, and Orange Counties.

Capture efficiency - The amount of VOC collected by a capture system which is expressed as a percentage derived from the weight per unit time of VOC entering a capture system and delivered to a control device divided by the weight per unit time of total VOC generated by a source of VOC.

Capture system - All equipment (including, but not limited to, hoods, ducts, fans, booths, ovens, dryers, etc.) that contains, collects, and transports an air pollutant to a control device.

Carbon adsorber - An add-on control device which uses activated carbon to adsorb volatile organic compounds from a gas stream.

Carbon adsorption system - A carbon adsorber with an inlet and outlet for exhaust gases and a system to regenerate the saturated adsorbent.

Cleaning solution (used in offset lithographic printing) - Liquids used to remove ink and debris from the operating surfaces of the printing press and its parts.

Clear coat (used in wood parts and products coating) - A coating which lacks opacity or which is transparent and uses the undercoat as a reflectant base or undertone color.

Clear sealers (used in wood parts and products coating) - Liquids applied over stains, toners, and other coatings to protect these coatings from marring during handling and to limit absorption of succeeding coatings.

Coating - A material applied onto or impregnated into a substrate for protective, decorative, or functional purposes. Such materials include, but are not limited to paints, varnishes, sealants, adhesives, thinners, diluents, inks, maskants, and temporary protective coatings.

Coating application system - Devices or equipment designed for the purpose of applying a coating material to a surface. The devices may include, but not be limited to, brushes, sprayers, flow coaters, dip tanks, rollers, knife coaters, and extrusion coaters.

Coating line - An operation consisting of a series of one or more coating application systems and including associated flashoff area(s), drying area(s), and oven(s) wherein a surface coating is applied, dried, or cured.

Cold solvent cleaning - A batch process that uses liquid solvent to remove soils from the surfaces of metal parts or to dry the parts by spraying, brushing, flushing, and/or immersion while maintaining the solvent below its boiling point. Wipe cleaning (hand cleaning) is not included in this definition.

Component - A piece of equipment, including, but not limited to pumps, valves, compressors, and pressure relief valves, which has the potential to leak volatile organic compounds.

Condensate - Liquids that result from the cooling and/or pressure changes of produced natural gas. Once these liquids are processed at gas plants or refineries or in any other manner, they are no longer considered condensates.

Consumer-solvent products - Products sold or offered for sale by wholesale or retail outlets for individual, commercial, or industrial use which may contain VOC, including household products, toiletries, aerosol products, rubbing compounds, windshield washer fluid, polishes and waxes, nonindustrial adhesives, space deodorants, moth control products, or laundry treatments.

Continuous monitoring - Any monitoring device used to comply with a continuous monitoring requirement of this chapter will be considered continuous if it can be demonstrated that at least 95% of the required data is captured.

Control device - Equipment (such as an incinerator or carbon adsorber) used to reduce, by destruction or removal, the amount of air pollutant(s) in an air stream prior to discharge to the ambient air.

Control system - A combination of one or more capture system(s) and control device(s) working in concert to reduce discharges of air pollutants to the ambient air.

Conveyorized degreasing - A solvent cleaning process that uses an automated parts handling system, typically a conveyor, to automatically provide a continuous supply of metal parts to be cleaned or dried using either cold solvent or vaporized solvent. A conveyorized degreasing process is fully enclosed except for the conveyor inlet and exit portals.

Custody transfer - The transfer of produced crude oil and/or condensate, after processing and/or treating in the producing operations, from storage tanks or automatic transfer facilities to pipelines or any other forms of transportation.

Cutback asphalt - Any asphaltic cement which has been liquified by blending with petroleum solvents (diluents).

Dallas/Fort Worth area - Collin, Dallas, Denton, and Tarrant Counties.

Delivery vessel/tank-truck tank - Any tank-truck or trailer that is equipped with a storage tank having a capacity greater than 1,000 gallons.

Drum (metal) - Any cylindrical metal shipping container with a nominal capacity equal to or greater than 12 gallons (45.4 liters) but equal to or less than 110 gallons (416 liters).

El Paso area - El Paso County.

Exempt solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compounds.

External floating roof - A cover or roof in an open-top tank which rests upon or is floated upon the liquid being contained and is equipped with a single or double seal to close the space between the roof edge and tank shell. A double seal consists of two complete and separate closure seals, one above the other, containing an enclosed space between them. An external floating roof storage tank which is equipped with a self-supporting fixed roof (typically a bolted aluminum geodesic dome) shall be considered to be an internal floating roof storage tank.

Extreme performance coating - A coating intended for exposure to extreme environmental conditions, such as continuous outdoor exposure; temperatures frequently above 95°C (203°F); detergents; abrasive and scouring agents; solvents; and corrosive solutions, chemicals, or atmospheres.

Final repair coat (used in wood parts and products coating) - Liquids applied to correct imperfections or damage to the topcoat.

Flexographic printing process - A method of printing in which the image areas are raised above the non-image areas, and the image carrier is made of an elastomeric material.

Fountain solution (used in offset lithographic printing) - A mixture of water, nonvolatile printing chemicals, and an additive (liquid) that reduces the surface tension of the water so that it spreads easily across the printing plate surface. The fountain solution wets the nonimage areas so that the ink is maintained within the image areas. Isopropyl alcohol, a volatile organic compound, is the most common additive used to reduce the surface tension of the fountain solution.

Fugitive emission - Any gaseous or particulate contaminant entering the atmosphere without first passing through a vent designed to direct or control its flow.

Gasoline - Any petroleum distillate having a Reid vapor pressure (RVP) of four pounds per square inch (27.6 kPa) or greater which is produced for use as a motor fuel and is commonly called gasoline.

Gasoline bulk plant - A gasoline loading and/or unloading facility, excluding marine terminals, having a gasoline throughput less than 20,000 gallons (75,708 liters) per day, averaged over any consecutive 30-day period. A motor vehicle fuel dispensing facility is not a gasoline bulk plant.

Gasoline terminal - A gasoline loading and/or unloading facility, excluding marine terminals, having a gasoline throughput equal to or greater than 20,000 gallons (75,708 liters) per day, averaged over any consecutive 30-day period.

Hand-held lawn and garden and utility equipment - Equipment that requires its full weight to be supported by the operator to perform its function and requires multi-positional operation.

Heatset (used in offset lithographic printing) - Any operation where heat is required to evaporate ink oil from the printing ink. Hot air dryers are used to deliver the heat.

High-bake coatings - Coatings designed to cure at temperatures above 194 degrees Fahrenheit.

High-volume low-pressure spray guns - Equipment used to apply coatings by means of a spray gun which operates between 0.1 and 10.0 pounds per square inch gauge air pressure.

Houston/Galveston area - Brazoria, Chambers, Fort Bend, Galveston, Harris, Liberty, Montgomery, and Waller Counties.

Independent small business marketer of gasoline - A person engaged in the marketing of gasoline who owns the dispensing equipment at a motor vehicle fuel dispensing facility and receives at least 50% of his annual income from the marketing of gasoline. A person is not an independent small business marketer of gasoline if such person:

(A) is a refiner; or

(B) controls (i.e., owns more than 50% of a business or corporation's stock), is controlled by, or is under common control with, a refiner; or

(C) is otherwise directly or indirectly affiliated with a re-finer or with a person who controls, is controlled by, or is under common control with a refiner (unless the sole affiliation is by means of a supply contract or an agreement or contract to use a trademark, trade name, service mark, or other identifying symbol or name owned by such refiner or any such person).

Industrial solid waste - Solid waste resulting from, or incidental to, any process of industry or manufacturing, or mining or agricultural operations, classified as follows:

(A) Class I industrial solid waste or Class I waste is any industrial solid waste designated as Class I by the Executive Director as any industrial solid waste or mixture of industrial solid wastes that because of its concentration or physical or chemical characteristics is toxic, corrosive, flammable, a strong sensitizer or irritant, a generator of sudden pressure by decomposition, heat, or other means, and may pose a substantial present or potential danger to human health or the environment when improperly processed, stored, transported, or otherwise managed, including hazardous industrial waste, as defined in §335.1 of this title (relating to Definitions) and §335.505 of this title (relating to Class I Waste Determination).

(B) Class II industrial solid waste is any individual solid waste or combination of industrial solid wastes that cannot be described as Class I or Class III, as defined in §335.506 of this title (relating to Class II Waste Determination).

(C) Class III industrial solid waste is any inert and essentially insoluble industrial solid waste, including materials such as rock, brick, glass, dirt, and certain plastics and rubber, etc., that are not readily decomposable as defined in §335.507 of this title (relating to Class III Waste Determination).

Internal floating cover - A cover or floating roof in a fixed roof tank which rests upon or is floated upon the liquid being contained, and is equipped with a closure seal or seals to close the space between the cover edge and tank shell. An external floating roof storage tank which is equipped with a self-supporting fixed roof (typically a bolted aluminum geodesic dome) shall be considered to be an internal floating roof storage tank.

Leak - A VOC concentration greater than 10,000 parts per million by volume (ppmv) or the dripping or exuding of process fluid based on sight, smell, or sound.

Leak-free marine vessel - A marine vessel whose cargo tank closures (hatch covers, expansion domes, ullage openings, butterworth covers and gauging covers) were inspected prior to cargo transfer operations and all such closures were properly secured such that no leaks of liquid or vapors can be detected by sight, sound, or smell. Cargo tank closures shall meet the applicable rules or regulations of the marine vessel's classification society or flag state. Cargo tank pressure/vacuum valves shall be operating within the range specified by the marine vessel's classification society or flag state and seated when tank pressure is less than 80% of set point pressure such that no vapor leaks can be detected by sight, sound, or smell. As an alternative, a marine vessel operated at negative pressure is assumed to be leak-free for the purpose of this standard.

Liquid-mounted seal - A primary seal mounted in continuous contact with the liquid between the tank wall and the floating roof around the circumference of the tank.

Lithography (used in offset lithographic printing) - A printing process where the image and nonimage areas are chemically differentiated; the image area is oil receptive, and the nonimage area is water receptive. This method differs from other printing methods, where the image is a raised or recessed surface.

Low-bake coatings - Coatings designed to cure at temperatures of 194 degrees Fahrenheit or less.

Marine loading facility - The loading arm(s), pumps, meters, shutoff valves, relief valves, and other piping and valves that are part of a single system used to fill a marine vessel at a single geographic site. Loading equipment that is physically separate (i.e., does not share common piping, valves, and other loading equipment) is considered to be a separate marine loading facility.

Marine loading operation - The transfer of oil, gasoline, or other volatile organic liquids at any affected marine terminal, beginning with the connections made to a marine vessel and ending with the disconnection from the marine vessel.

Marine terminal - Any marine facility or structure constructed to load oil, gasoline, or other volatile organic liquid bulk cargo into a marine vessel. A marine terminal consists of one or more marine loading facilities.

Marine vessel - Any watercraft used, or capable of being used, as a means of transportation on water, and that is constructed or adapted to carry, or that carries, oil, gasoline, or other volatile organic liquid in bulk as a cargo or cargo residue.

Mechanical shoe seal - A metal sheet which is held vertically against the storage tank wall by springs or weighted levers and is connected by braces to the floating roof. A flexible coated fabric (envelope) spans the annular space between the metal sheet and the floating roof.

Motor vehicle fuel dispensing facility - Any site where gasoline is dispensed to motor vehicle fuel tanks from stationary storage tanks.

Municipal solid waste facility - All contiguous land, structures, other appurtenances, and improvements on the land used for processing, storing, or disposing of solid waste. A facility may be publicly or privately owned and may consist of several processing, storage, or disposal operational units, e.g., one or more landfills, surface impoundments, or combinations of them.

Municipal solid waste landfill - A discrete area of land or an excavation that receives household waste and that is not a land application unit, surface impoundment, injection well, or waste pile, as those terms are defined under 257.2 of 40 Code of Federal Regulations, Part 257. A municipal solid waste landfill (MSWLF) unit also may receive other types of RCRA Subtitle D wastes, such as commercial solid waste, nonhazardous sludge, conditionally exempt small-quantity generator waste, and industrial solid waste. Such a landfill may be publicly or privately owned. A MSWLF unit may be a new MSWLF unit, an existing MSWLF unit, or a lateral expansion.

Municipal solid waste landfill emissions - Any gas derived from a natural process through the decomposition of organic waste deposited in a municipal solid waste disposal site or from the VOC in the waste.

Natural gas/gasoline processing - A process that extracts condensate from gases obtained from natural gas production and/or fractionates natural gas liquids into component products, such as ethane, propane, butane, and natural gasoline. The following facilities shall be included in this definition if, and only if, located on the same property as a natural gas/gasoline processing operation defined above: compressor stations, dehydration units, sweetening units, field treatment, underground storage, liquified natural gas units, and field gas gathering systems.

Non-flat architectural coating - Any coating which registers a gloss of 15 or greater on an 85° gloss meter or 5 or greater on a 60° gloss meter, and which is identified on the label as gloss, semigloss, or eggshell enamel coating.

Non-heatset (used in offset lithographic printing) - Any operation where the printing inks are set without the use of heat. For the purposes of this rule, ultraviolet-cured and electron beam-cured inks are considered non-heatset.

Offset lithography - A printing process that transfers the ink film from the lithographic plate to an intermediary surface (blanket) which, in turn, transfers the ink film to the substrate.

Opaque ground coats and enamels (used in wood parts and products coating) - Colored, opaque liquids applied to wood or wood composition substrates which completely hide the color of the substrate in a single coat.

Open-top vapor degreasing - A batch solvent cleaning process that is open to the air and which uses boiling solvent to create solvent vapor used to clean or dry metal parts through condensation of the hot solvent vapors on the colder metal parts.

Owner or operator of a motor vehicle fuel dispensing facility (as used in §§115.241-115.249 of this title, relating to Control of Vehicle Refueling Emissions (Stage II) at Motor Vehicle Fuel Dispensing Facilities) - Any person who owns, leases, operates, or controls the motor vehicle fuel dispensing facility.

Packaging rotogravure printing - Any rotogravure printing upon paper, paper board, metal foil, plastic film, or any other substrate which is, in subsequent operations, formed into packaging products or labels.

Pail (metal) - Any cylindrical metal shipping container with a nominal capacity equal to or greater than 1 gallon (3.8 liters) but less than 12 gallons (45.4 liters) and constructed of 29 gauge or heavier material.

Petroleum refinery - Any facility engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, or other products through distillation of crude oil, or through the redistillation, cracking, extraction, reforming, or other processing of unfinished petroleum derivatives.

Polyester resin materials - Unsaturated polyester resins, such as isophthalic, orthophthalic, halogenated, bisphenol A, vinyl ester, or furan resins; cross-linking agents; catalysts; gel coats; inhibitors; accelerators; promoters; and any other material containing VOC used in polyester resin operations.

Polyester resin operation - A facility which fabricates or reworks products by mixing, pouring, hand laying-up, impregnating, injecting, forming, winding, spraying, laminating, molding, curing, resin transfer, and/or pultrusion by using unsaturated polyester resin materials with fiberglass, fillers, or any other reinforcement materials.

Polymer and resin manufacturing process - A process that produces any of the following polymers or resins: polyethylene, polypropylene, polystyrene, and styrenebutadiene latex.

Pounds of volatile organic compounds (VOC) per gallon of coating (minus water and exempt solvents) - Basis for emission limits for surface coating processes. Can be calculated by the following equation:

$$\text{Pounds of VOC per gallon of coating (minus water and exempt solvents)} = \frac{W_v}{V_m - V_w - V_{es}}$$

Where:

W_v = weight of VOC, in pounds, contained in V_m gallons of coating

V_m = volume of coating, generally assumed to be one gallon

V_w = volume of water, in gallons, contained in V_m gallons of coating

V_{es} = volume of exempt solvents, in gallons, contained in V_m gallons of coating

Pounds of volatile organic compounds (VOC) per gallon of solids - Basis for emission limits for surface coating process. Can be calculated by the following equation:

$$\text{Pounds of VOC per gallon of solids} = \frac{W_v}{}$$

$$V_m - V_v - V_w - V_{es}$$

Where:

W_v = weight of VOC, in pounds, contained in V_m gallons of coating

V_m = volume of coating, generally assumed to be one gallon

V_v = volume of VOC, in gallons, contained in V_m gallons of coating

V_w = volume of water, in gallons, contained in V_m gallons of coating

V_{es} = volume of exempt solvents, in gallons, contained in V_m gallons of coating

Printing line - An operation consisting of a series of one or more printing processes and including associated drying areas.

Process or processes - Any action, operation, or treatment embracing chemical, commercial, industrial, or manufacturing factors such as combustion units, kilns, stills, dryers, roasters, and equipment used in connection therewith, and all other methods or forms of manufacturing or processing that may emit smoke, particulate matter, gaseous matter, or visible emissions.

Property - All land under common control or ownership coupled with all improvements on such land, and all fixed or movable objects on such land, or any vessel on the waters of this state.

Publication rotogravure printing - Any rotogravure printing upon paper which is subsequently formed into books, magazines, catalogues, brochures, directories, newspaper supplements, or other types of printed materials.

Remote reservoir cold solvent cleaning - Any cold solvent cleaning operation in which liquid solvent is pumped to a sink-like work area that drains solvent back into an enclosed container while parts are being cleaned, allowing no solvent to pool in the work area.

Rotogravure printing - The application of words, designs, and/or pictures to any substrate by means of a roll printing technique which involves a recessed image area. The recessed area is loaded with ink and pressed directly to the substrate for image transfer.

Semitransparent spray stains and toners (used in wood parts and products coating) - Colored liquids applied to wood to change or enhance the surface without concealing the surface, including but not limited to, toners and nongrain-raising stains.

Semitransparent wiping and glazing stains (used in wood parts and products coating) - Colored liquids applied to wood that require multiple wiping steps to enhance the grain character and to partially fill the porous surface of the wood.

Shellacs (used in wood parts and products coating) - Coatings formulated solely with the resinous secretions of the lac beetle (laccifer lacca), thinned with alcohol, and formulated to dry by evaporation without a chemical reaction.

Sludge - Any solid or semisolid, or liquid waste generated from a municipal, commercial, or industrial wastewater treatment plant; water supply treatment plant, exclusive of the treated effluent from a wastewater treatment plant; or air pollution control equipment.

Solid waste - Garbage, rubbish, refuse, sludge from a waste water treatment plant, water supply treatment plant, or air pollution control equipment, and other discarded material, including solid, liquid, semisolid, or containerized gaseous material resulting from industrial, municipal, commercial, mining, and agricultural operations and from community and institutional activities. The term does not include:

(A) solid or dissolved material in domestic sewage, or solid or dissolved material in irrigation return flows, or industrial discharges subject to regulation by permit issued under the Water Code, Chapter 26;

(B) soil, dirt, rock, sand, and other natural or man-made inert solid materials used to fill land, if the object of the fill is to make the land suitable for the construction of surface improvements; or

(C) waste materials that result from activities associated with the exploration, development, or production of oil or gas or geothermal resources, and other substance or material regulated by the Railroad Commission of Texas under the Natural Resources Code, 91.101, unless the waste, substance, or material results from activities associated with gasoline plants, natural gas liquids processing plants, pressure maintenance plants, or repressurizing plants and is hazardous waste as defined by the Administrator of the United States Environmental Protection Agency under the federal Solid Waste Disposal Act, as amended by Resource Conservation and Recovery Act, as amended (42 USC, 6901 et seq).

Source - A point of origin of air contaminants, whether privately or publicly owned or operated. Upon request of a source owner, the Executive Director shall determine whether multiple processes emitting air contaminants from a single point of emission will be treated as a single source or as multiple sources.

Submerged fill pipe - A fill pipe that extends from the top of a tank to have a maximum clearance of six inches (15.2 cm) from the bottom or, when applied to a tank which is loaded from the side, that has a discharge opening entirely submerged when the pipe used to withdraw liquid from the tank can no longer withdraw liquid in normal operation.

Surface coating processes - Operations which utilize a coating application system.

(A) **Large appliance coating** - The coating of doors, cases, lids, panels, and interior support parts of residential and commercial washers, dryers, ranges, refrigerators, freezers, water heaters, dishwashers, trash compactors, air conditioners, and other large appliances.

(B) **Metal furniture coating** - The coating of metal furniture (tables, chairs, wastebaskets, beds, desks, lockers, benches, shelves, file cabinets, lamps, and other metal furniture products) or the coating of any metal part which will be a part of a nonmetal furniture product.

(C) **Coil coating** - The coating of any flat metal sheet or strip supplied in rolls or coils.

(D) **Paper coating** - The coating of paper and pressure-sensitive tapes (regardless of substrate and including paper, fabric, and plastic film) and related web coating processes on plastic film (including typewriter ribbons, photographic film, and magnetic tape) and metal foil (including decorative, gift wrap, and packaging).

(E) **Fabric coating** - The application of coatings to fabric, which includes rubber application (rainwear, tents, and industrial products such as gaskets and diaphragms).

(F) **Vinyl coating** - The use of printing or any decorative or protective topcoat applied over vinyl sheets or vinyl-coated fabric.

(G) **Can coating** - The coating of cans for beverages (including beer), edible products (including meats, fruit, vegetables, and others), tennis balls, motor oil, paints, and other mass-produced cans.

(H) **Automobile coating** - The assembly-line coating of passenger cars, or passenger car derivatives, capable of seating 12 or fewer passengers.

(I) **Light-duty truck coating** - The assembly-line coating of motor vehicles rated at 8,500 pounds (3,855.5 kg) gross vehicle weight or less and designed primarily for the transportation of property, or derivatives such as pickups, vans, and window vans.

(J) **Miscellaneous metal parts and products coating** - The coating of miscellaneous metal parts and products in the following categories:

(i) large farm machinery (harvesting, fertilizing, and planting machines, tractors, combines, etc.);

(ii) small farm machinery (lawn and garden tractors, lawn mowers, rototillers, etc.);

(iii) small appliances (fans, mixers, blenders, crock pots, dehumidifiers, vacuum cleaners, etc.);

(iv) commercial machinery (computers and auxiliary equipment, typewriters, calculators, vending machines, etc.);

(v) industrial machinery (pumps, compressors, conveyor components, fans, blowers, transformers, etc.);

(vi) fabricated metal products (metal-covered doors, frames, etc.); and

(vii) any other category of coated metal products, except the specified list in subparagraphs (A)-(I) of surface coating processes, including, but not limited to, those which are included in the Standard Industrial Classification Code major group 33 (primary metal industries), major group 34 (fabricated metal products), major group 35 (nonelectrical machinery), major group 36 (electrical machinery), major group 37 (transportation equipment), major group 38 (miscellaneous instruments), and major group 39 (miscellaneous manufacturing industries).

(K) **Factory surface coating of flat wood paneling** - Coating of flat wood paneling products, including hardboard, hardwood plywood, particle board, printed interior paneling, and tile board.

(L) **Mirror backing coating** - The application of coatings to the silvered surface of a mirror.

(M) **Wood parts and products coating** - The coating of wood parts and products, excluding factory surface coating of flat wood paneling.

Synthetic Organic Chemical Manufacturing Industry batch distillation operation - A noncontinuous distillation operation in which a discrete quantity or batch of liquid feed is charged into a distillation unit and distilled at one time. After the initial charging of the liquid feed, no additional liquid is added during the distillation operation.

Synthetic Organic Chemical Manufacturing Industry batch process - Any noncontinuous reactor process which is not characterized by steady-state conditions, and in which reactants are not added and products are not removed simultaneously.

Synthetic Organic Chemical Manufacturing Industry distillation operation - An operation separating one or more feed stream(s) into two or more exit streams, each exit stream having component concentrations different from those in the feed stream(s). The separation is achieved by the redistribution of the components between the liquid and vapor-phase as they approach equilibrium within the distillation unit.

Synthetic Organic Chemical Manufacturing Industry distillation unit - A device or vessel in which distillation operations occur, including all associated internals (including, but not limited to, trays and packing), accessories (including, but not limited to, reboilers, condensers, vacuum pumps, and stream jets), and recovery devices (such as adsorbers, carbon absorbers, and condensers) which are capable of, and used for, recovering chemicals for use, reuse, or sale.

Synthetic Organic Chemical Manufacturing Industry reactor process - A unit operation in which one or more chemicals, or reactants other than air, are combined or decomposed in such a way, that their molecular structures are altered and one or more new organic compounds are formed.

Synthetic organic chemical manufacturing process - A process that produces, as intermediates or final products, one or more of the chemicals listed in Table I of this section.

System or device - Any article, chemical, machine, equipment, or other contrivance, the use of which may eliminate, reduce, or control the emission of air contaminants to the atmosphere.

Topcoat (used in wood parts and products coating) - A coating which provides the final protective and aesthetic properties to wood finishes.

Transfer efficiency - The amount of coating solids deposited onto the surface of a part or product divided by the total amount of coating solids delivered to the coating application system.

Transport vessel - Any land-based mode of transportation (truck or rail) that is equipped with a storage tank having a capacity greater than 1,000 gallons which is used primarily to transport oil, gasoline, or other volatile organic liquid bulk cargo. Vacuum trucks used exclusively for maintenance and spill response are not considered to be transport vessels.

True partial pressure - The absolute aggregate partial pressure (psia) of all VOC in a gas stream.

True vapor pressure - The absolute aggregate partial vapor pressure (psia) of all VOC at the temperature of storage, handling, or processing.

Utility engines - Small four-stroke and two-stroke, air or liquid cooled, gasoline, diesel, or alternative fuel powered engines under 25 horsepower. They are designed for powering lawn, garden, and turf maintenance implements, timber operations, generating electricity, and pumping fluids.

Vapor balance system - A system which provides for containment of hydrocarbon vapors by returning displaced vapors from the receiving vessel back to the originating vessel.

Vapor-mounted seal - A primary seal mounted so there is an annular space underneath the seal. The annular vapor space is bound by the bottom of the primary seal, the tank wall, the liquid surface, and the floating roof or cover.

Vapor recovery system - Any control system which utilizes vapor collection equipment to route VOC to a control device that reduces VOC emissions.

Vapor-tight - Not capable of allowing the passage of gases at the pressures encountered except where other acceptable leak-tight conditions are prescribed in the Regulations.

Varnishes (used in wood parts and products coating) - Clear wood finishes formulated with various resins to dry by chemical reaction on exposure to air.

Vehicle refinishing (body shops) - The repair and recoating of vehicles, including, but not limited to, motorcycles, passenger cars, vans, light-duty trucks, medium-duty trucks, heavy-duty trucks, buses, and other vehicle body parts, bodies, and cabs by a commercial operation other than the original manufacturer. The repair and recoating of trailers, construction equipment, vehicles at in-house (fleet) vehicle refinishing operations, and vehicles by private individuals are not included.

Vent - Any duct, stack, chimney, flue, conduit, or other device used to conduct air contaminants into the atmosphere.

Volatile organic compound - Any compound of carbon or mixture of carbon compounds excluding methane, ethane, 1,1,1-trichloroethane (methyl chloroform), methylene chloride (dichloromethane), perchloroethylene (tetrachloroethylene), trichlorofluoromethane (CFC-11), dichlorodifluoromethane (CFC-12), chlorodifluoromethane (HCFC-22), trifluoromethane (HFC-23), 1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113), 1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114), chloropentafluoroethane (CFC-115), 1,1,1-trifluoro-2,2-dichloroethane (HCFC-123), 2-chloro-1,1,1,2-tetrafluoroethane (HCFC-124), pentafluoroethane (HFC-125), 1,1,2,2-tetrafluoroethane (HFC-134), 1,1,1,2-tetrafluoroethane (HFC-134a), 1,1-dichloro-1-fluoroethane (HCFC-141b), 1-chloro-1,1-difluoroethane (HCFC-142b), 1,1,1-trifluoroethane (HFC-143a), 1,1-difluoroethane (HFC-152a), parachlorobenzotrifluoride (PCBTF), cyclic, branched, or linear completely methylated siloxanes, acetone, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, ammonium carbonate, and perfluorocarbon compounds which fall into these classes:

(A) cyclic, branched, or linear, completely fluorinated alkanes;

(B) cyclic, branched, or linear, completely fluorinated ethers with no unsaturations;

(C) cyclic, branched, or linear, completely fluorinated tertiary amines with no unsaturations; and

(D) sulfur-containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine.

Volatile organic compound (VOC) water separator - Any tank, box, sump, or other container in which any VOC floating on or contained in water entering such tank, box, sump, or other container is physically separated and removed from water prior to outfall, drainage, or recovery of such water.

Wash coat (used in wood parts and products coating) - A low-solids clear liquid applied over semitransparent stains and toners to protect the color coats and to set the fibers for subsequent sanding or to separate spray stains from wiping stains to enhance color depth.

Waxy, high pour point crude oil - A crude oil with a pour point of 50°F (10°C) or higher as determined by the American Society for Testing and Materials Standard D97-66, "Test for Pour Point of Petroleum Oils."

TABLE I.
SYNTHETIC ORGANIC CHEMICALS

OCPDB No.*	Chemical	OCPDB No.*	Chemical
20	Acetal	370	Benzamide
30	Acetaldehyde	380	Benzene
40	Acetaldol	390	Benzenedisulfonic acid
50	Acetamide	400	Benzenesulfonic acid
65	Acetanilide	410	Benzil
70	Acetic acid	420	Benzilic acid
80	Acetic anhydride	430	Benzoic acid
90	Acetone	440	Benzoin
100	Acetone cyanohydrin	450	Benzonitrile
110	Acetonitrile	460	Benzophenone
120	Acetophenone	480	Benzotrichloride
125	Acetyl chloride	490	Benzoyl chloride
130	Acetylene	500	Benzyl alcohol
140	Acrolein	510	Benzyl amine
150	Acrylamide	520	Benzyl benzoate
160	Acrylic acid and esters	530	Benzyl chloride
170	Acrylonitrile	540	Benzyl dichloride
180	Adipic acid	550	Biphenyl
185	Adiponitrile	560	Bisphenol A
190	Alkyl naphthalenes	570	Bromobenzene
200	Allyl alcohol	580	Bromonaphthalene
210	Allyl chloride	590	Butadiene
220	Aminobenzoic acid	592	1-butene
230	Aminoethylethanolamine	600	n-butyl acetate
235	p-Aminophenol	630	n-butyl acrylate
240	Amyl acetates	640	n-butyl alcohol
250	Amyl alcohols	650	s-butyl alcohol
260	Amyl amine	660	t-butyl alcohol
270	Amyl chloride	670	n-butylamine
280	Amyl mercaptans	680	s-butylamine
290	Amyl phenol	690	t-butylamine
300	Aniline	700	p-tert-butyl benzoic acid
310	Aniline hydrochloride	710	1,3-butylene glycol
320	Anisidine	750	n-butyraldehyde
330	Anisole	760	Butyric acid
340	Anthranilic acid	770	Butyric anhydride
350	Anthraquinone	780	Butyronitrile
360	Benzaldehyde	785	Caprolactam

TABLE I.
SYNTHETIC ORGANIC CHEMICALS

OCPDB No.*	Chemical	OCPDB No.*	Chemical
790	Carbon disulfide	1120	Cyclohexane
800	Carbon tetrabromide	1130	Cyclohexanol
810	Carbon tetrachloride	1140	Cyclohexanone
820	Cellulose acetate	1150	Cyclohexene
840	Chloroacetic acid	1160	Cyclohexylamine
850	m-chloroaniline	1170	Cyclooctadiene
860	o-chloroaniline	1180	Decanol
870	p-chloroaniline	1190	Diacetone alcohol
880	Chlorobenzaldehyde	1200	Diaminobenzoic acid
890	Chlorobenzene	1210	Dichloroaniline
900	Chlorobenzoic acid	1215	m-dichlorobenzene
905	Chlorobenzotrichloride	1216	o-dichlorobenzene
910	Chlorobenzoyl chloride	1220	p-dichlorobenzene
920	Chlorodifluoroethane	1221	Dichlorodifluoromethane
921	Chlorodifluoromethane	1240	Dichloroethyl ether
930	Chloroform	1244	1,2-dichloroethane (EDC)
940	Chloronapthalene	1250	Dichlorohydrin
950	o-chloronitrobenzene	1270	Dichloropropene
951	p-chloronitrobenzene	1280	Dicyclohexylamine
960	Chlorophenols	1290	Diethylamine
964	Chloroprene	1300	Diethylene glycol
965	Chlorosulfonic acid	1304	Diethylene glycol diethyl ether
970	m-chlorotoluene	1305	Diethylene glycol dimethyl ether
980	o-chlorotoluene	1310	Diethylene glycol monobutyl ether
990	p-chlorotoluene	1320	Diethylene glycol monobutyl ether acetate
992	Chlorotrifluoromethane	1330	Diethylene glycol monoethyl ether
1000	m-cresol	1340	Diethylene glycol monoethyl ether acetate
1010	o-cresol1020p-cresol	1360	Diethylene glycol monomethyl ether
1021	Mixed cresols	1420	Diethyl sulfate
1030	Cresylic acid	1430	Difluoroethane
1040	Crotonaldehyde	1440	Diisobutylene
1050	Crotonic acid	1442	Diisodecyl phthalate
1060	Cumene	1444	Diisooctyl phthalate
1070	Cumene hydroperoxide	1450	Dikethene
1080	Cyanoacetic acid	1460	Dimethylamine
1090	Cyanogen chloride		
1100	Cyanuric acid		
1110	Cyanuric chloride		

TABLE I.
SYNTHETIC ORGANIC CHEMICALS

OCPDB No.*	Chemical	OCPDB No.*	Chemical
1470	N,N-dimethylaniline	1830	Ethylene glycol
1480	N,N-dimethyl ether	1840	Ethylene glycol diacetate
1490	N,N-dimethylformamide	1870	Ethylene glycol dimethyl ether
1495	Dimethylhydrazine	1890	Ethylene glycol monobutyl ether
1500	Dimethyl sulfate	1900	Ethylene glycol monobutyl ether acetate
1510	Dimethyl sulfide	1910	Ethylene glycol monoethyl ether
1520	Dimethyl sulfoxide	1920	Ethylene glycol monoethyl ether acetate
1530	Dimethyl terephthalate	1930	Ethylene glycol monomethyl ether
1540	3,5-dinitrobenzoic acid	1940	Ethylene glycol monomethyl ether acetate
1545	Dinitrophenol	1960	Ethylene glycol monophenyl ether
1550	Dinitrotoluene	1970	Ethylene glycol monopropyl ether
1560	Dioxane	1980	Ethylene oxide
1570	Dioxolane	1990	Ethyl ether
1580	Diphenylamine	2000	2-ethylhexanol
1590	Diphenyl oxide	2010	Ethyl orthoformate
1600	Diphenyl thiourea	2020	Ethyl oxalate
1610	Dipropylene glycol	2030	Ethyl sodium oxalacetate
1620	Dodecene	2040	Formaldehyde
1630	Dodecylaniline	2050	Formamide
1640	Dodecylphenol	2060	Formic acid
1650	Epichlorohydrin	2070	Fumaric acid
1660	Ethanol	2073	Furfural
1661	Ethanolamines	2090	Glycerol (Synthetic)
1670	Ethyl acetate	2091	Glycerol dichlorohydrin
1680	Ethyl acetoacetate	2100	Glycerol triether
1690	Ethyl acrylate	2110	Glycine
1700	Ethylamine	2120	Glyoxal
1710	Ethylbenzene	2145	Hexachlorobenzene
1720	Ethyl bromide	2150	Hexachloroethane
1730	Ethylcellulose	2160	Hexadecyl alcohol
1740	Ethyl chloride	2165	Hexamethylenediamine
1750	Ethyl chloroacetate	2170	Hexamethylene glycol
1760	Ethylcyanoacetate	2180	Hexamethylenetetramine
1770	Ethylene	2190	Hydrogen cyanide
1780	Ethylene carbonate	2200	Hydroquinone
1790	Ethylene chlorohydrin		
1800	Ethylenediamine		
1810	Ethylene dibromide		

TABLE I.
SYNTHETIC ORGANIC CHEMICALS

OCPDB No.*	Chemical	OCPDB No.*	Chemical
2210	p-hydroxybenzoic acid	2620	Methylene chloride
2240	Isoamylene	2630	Methylene dianiline
2250	Isobutanol	2635	Methylene diphenyl diisocyanate
2260	Isobutyl acetate	2640	Methyl ethyl ketone
2261	Isobutylene	2645	Methyl formate
2270	Isobutyraldehyde	2650	Methyl isobutyl carbinol
2280	Isobutyric acid	2660	Methyl isobutyl ketone
2300	Isodecanol	2665	Methyl methacrylate
2320	Isooctyl alcohol	2670	Methyl pentynol
2321	Isopentane	2690	a-methylstyrene
2330	Isophorone	2700	Morpholine
2340	Isophthalic acid	2710	a-naphthalene sulfonic acid
2350	Isoprene	2720	B-naphthalene sulfonic acid
2360	Isopropanol	2730	a-naphthol
2370	Isopropyl acetate	2740	B-naphthol
2380	Isopropylamine	2750	Neopentanoic acid
2390	Isopropyl chloride	2756	o-nitroaniline
2400	Isopropylphenol	2757	p-nitroaniline
2410	Ketene	2760	o-nitroanisole
2414	Linear alkyl sulfonate	2762	p-nitroanisole
2417	Linear alkylbenzene	2770	Nitrobenzene
2420	Maleic acid	2780	Nitrobenzoic acid (o, m, and p)
2430	Maleic anhydride	2790	Nitroethane
2440	Malic acid	2791	Nitromethane
2450	Mesityl oxide	2792	Nitrophenol
2455	Metanilic acid	2795	Nitropropane
2460	Methacrylic acid	2800	Nitrotoluene
2490	Methallyl chloride	2810	Nonene
2500	Methanol	2820	Nonyl phenol
2510	Methyl acetate	2830	Octyl phenol
2520	Methyl acetoacetate	2840	Paraldehyde
2530	Methylamine	2850	Pentaerythritol
2540	n-methylaniline	2851	n-pentane
2545	Methyl bromide	2855	l-pentene
2550	Methyl butynol	2860	Perchloroethylene
2560	Methyl chloride	2882	Perchloromethyl mercaptan
2570	Methyl cyclohexane	2890	o-phenetidine
2590	Methyl cyclohexanone	2900	p-phenetidine

TABLE I.
SYNTHETIC ORGANIC CHEMICALS

OCPDB No.*	Chemical	OCPDB No.*	Chemical
2910	Phenol	3260	Sulfolane
2920	Phenolsulfonic acids	3270	Tannic acid
2930	Phenyl anthranilic acid	3280	Terephthalic acid
2940	Phenylenediamine	3290	
2950	Phosgene	and	
2960	Phthalic anhydride	3291	Tetrachloroethanes
2970	Phthalimide	3300	Tetrachlorophthalic anhydride
2973	B-picoline	3310	Tetraethyllead
2976	Piperazine	3320	Tetrahydronaphthalene
3000	Polybutenes	3330	Tetrahydrophthalic anhydride
3010	Polyethylene glycol	3335	Tetramethyllead
3025	Polypropylene glycol	3340	Tetramethylenediamine
3063	Propionaldehyde	3341	Tetramethylethylenediamine
3066	Propionic acid	3350	Toluene-2,4-diamine
3070	n-propyl alcohol	3354	Toluene-2,4-diisocyanate
3075	Propylamine	3355	Toluene diisocyanates (mixture)
3080	Propyl chloride	3360	Toluene sulfonamide
3090	Propylene	3370	Toluene sulfonic acids
3100	Propylene chlorohydrin	3380	Toluene sulfonyl chloride
3110	Propylene dichloride	3381	Toluidines
3111	Propylene glycol	3390,	
3120	Propylene oxide	3391,	
3130	Pyridine	and	
3140	Quinone	3393	Trichlorobenzenes
3150	Resorcinol	3395	1,1,1-trichloroethane
3160	Resorcylic acid	3400	1,1,2-trichloroethane
3170	Salicylic acid	3410	Trichloroethylene
3180	Sodium acetate	3411	Trichlorofluoromethane
3181	Sodium benzoate	3420	1,2,3-trichloropropane
3190	Sodium carboxymethyl cellulose	3430	1,1,2-trichloro-1,2,2-
3191	Sodium chloracetate		trifluoroethane
3200	Sodium formate	3450	Triethylamine
3210	Sodium phenate	3460	Triethylene glycol
3220	Sorbic acid	3470	Triethylene glycol dimethyl ether
3230	Styrene	3480	Triisobutylene
3240	Succinic acid	3490	Trimethylamine
3250	Succinonitrile	3500	Urea
3251	Sulfanilic acid	3510	Vinyl acetate

3520	Vinyl chloride
3530	Vinylidene chloride
3540	Vinyl toluene
3541	Xylenes (mixed)
3560	o-xylene
3570	p-xylene
3580	Xylenol
3590	Xylidine

*The OCPDB Numbers are reference indices assigned to the various chemicals in the Organic Chemical Producers Data Base developed by EPA.

Adopted February 14, 1996 Effective March 7, 1996

(2) When degassing or cleaning is effected through the hatches of a transport vessel with a loading arm equipped with a vapor collection adapter, then pneumatic, hydraulic, or other mechanical means shall be provided to force a vapor-tight seal between the adapter and the hatch. A means shall be provided to minimize liquid drainage from the degassing or cleaning device when it is removed from the hatch of any transport vessel or to accomplish drainage before such removal.

(3) When degassing or cleaning is effected through the hatches or manways of stationary VOC storage tanks, all lines shall be equipped with fittings which make vapor-tight connections and which are closed when disconnected; or equipped to permit residual VOC in the line to discharge into a recovery or disposal system after degassing or cleaning is complete.

(4) Degassing and cleaning equipment shall be designed and operated to prevent avoidable VOC leaks.

(5) Vapors shall be routed to the control device until a turnover of at least four vapor space volumes has occurred, or four turnovers of the vapor space under a floating roof, or the partial vapor pressure is less than 0.5 psia (19,000 ppmw, or 34,000 ppmv expressed as methane). After one of these conditions has been satisfied, the storage vessel may be vented to the atmosphere for the remainder of the degassing or cleaning process. .

(b) For all persons in the Beaumont/Port Arthur and Houston/Galveston areas, the following control requirements shall apply to marine vessels:

(1) No person shall permit the degassing or cleaning of a marine vessel containing VOCs unless the vapors are processed by a vapor control system.

(2) When degassing or cleaning is effected through the hatches of a marine vessel containing VOCs with a loading arm equipped with a vapor collection adapter, then pneumatic, hydraulic, or other mechanical means shall be provided to force a vapor-tight seal between the adapter and the hatch, or a negative pressure inside the cargo tank shall be maintained. A means shall be provided to minimize liquid drainage from the degassing or cleaning device and line when they are removed from the hatch of any marine vessel containing VOCs or to accomplish drainage before such removal.

(3) Degassing and cleaning equipment must be designed and operated to prevent avoidable VOC leaks.

(4) Vapors shall be routed to the control device until the marine vessel is stripped VOC liquid-free and a turnover of at least four vapor space volumes has occurred, the partial vapor pressure is less than 0.5 psia (19,000 ppmw, or 34,000 ppmv expressed as methane), or the

concentration of VOC is less than 20% of lower explosion limit. After one of these conditions has been satisfied, the marine vessel may be vented to the atmosphere for the remainder of the degassing or cleaning process.

Adopted February 14, 1996 Effective March 7, 1996

§115.543. Alternate Control Requirements.

For all persons in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas, alternate methods of demonstrating and documenting continuous compliance with the applicable control requirements or exemption criteria in this undesignated head may be approved by the Executive Director in accordance with §115.910 of this title (relating to Availability of Alternate Means of Control) if emission reductions are demonstrated to be substantially equivalent.

Adopted February 14, 1996 Effective March 7, 1996

§115.544. Inspection Requirements.

For all persons in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas, the following inspection requirements shall apply.

(1) Inspection for visible liquid leaks, visible fumes, or significant odors resulting from volatile organic compound (VOC) transfer operations shall be conducted during each degassing or cleaning operation by the owner or operator of the VOC degassing and cleaning facility; and

(2) VOC degassing or cleaning through the affected transfer lines shall be discontinued when a leak is observed and the leak cannot be repaired within a reasonable length of time. The intentional bypassing of a vapor control device during cleaning or degassing is prohibited.

Adopted May 4, 1994 Effective May 27 1994

§115.545. Approved Test Methods.

For the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas, compliance with §115.541 and §115.542 of this title (relating to Emission Specifications and Control Requirements) shall be determined by applying the following test methods, as appropriate:

(1) Test Methods 1-4 [40 Code of Federal Regulations (CFR) 60, Appendix A] for determining flow rates;

(2) Test Method 18 (40 CFR 60, Appendix A) for determining gaseous organic compound emissions by gas chromatography;

(3) Test Method 25 (40 CFR 60, Appendix A) for determining total gaseous nonmethane organic emissions as carbon;

(4) Test Methods 25A or 25B (40 CFR 60, Appendix A) for determining total gaseous organic concentrations using flame ionization or nondispersive infrared analysis;

(5) additional test procedures described in 40 CFR 60.503 b, c, and d, for determining compliance for bulk gasoline terminals;

(6) Test Method 21 (40 CFR 60, Appendix A) for determining volatile organic compound leaks;

(7) determination of true vapor pressure using ASTM Test Method D323-89, D2879, D4953, D5190, or D5191 for the measurement of Reid vapor pressure, adjusted for actual storage temperature in accordance with API Publication 2517, Third Edition, 1989;

(8) Test Method 27 (40 CFR 60, Appendix A) for determining tank-truck leaks;

(9) determination of cargo tank pressurization method described in 40CFR61.304(f); or

(10) minor modifications to these test methods approved by the Executive Director.

Adopted May 4, 1994 Effective May 27, 1994

§115.546. Monitoring and Recordkeeping Requirements.

For facilities in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas affected by §115.541 and §115.542 of this title (relating to Emission Specifications and Control Requirements), the owner or operator of any volatile organic compound (VOC) degassing or cleaning facility shall maintain the following information at the facility for at least two years and shall make such information available upon request to representatives of the Texas Natural Resource Conservation Commission, United States Environmental Protection Agency, or any local air pollution control agency having jurisdiction in the area:

(1) For vessel degassing or cleaning operations:

(A) a record of the type and number of all transport vessels, stationary VOC storage tanks, and marine vessels which are degassed or cleaned at the affected facility;

(B) the chemical name and estimated liquid quantity of VOC contained in each vessel prior to degassing or cleaning; and

(C) the chemical name and estimated liquid quantity of VOC removed from each vessel.

(2) For vapor control systems:

(A) continuous monitoring and recording of the exhaust gas temperature immediately downstream of a direct-flame incinerator;

(B) continuous monitoring and recording of the inlet and outlet gas temperature of a catalytic incinerator;

(C) continuous monitoring and recording of the exhaust gas VOC concentration for carbon adsorption systems that contain facilities to regenerate the carbon bed directly, as defined in §115.10 of this title (relating to Definitions); or periodic monitoring of the exhaust gas VOC as specified by 40 CFR 61.354(d), of any carbon adsorption system that does not regenerate the carbon bed directly, to determine breakthrough; and

(D) the date and reason for any maintenance and repair of the required control devices and the estimated quantity and duration of VOC emissions during such activities.

(3) The results of any leak inspection and repair conducted in accordance with the provisions specified in §115.544 of this title (relating to Inspection Requirements).

(4) The results of any testing conducted in accordance with the provisions specified in §115.545 of this title (relating to Approved Test Methods).

Adopted February 14, 1996 Effective March 7, 1996

§115.547. Exemptions.

For all persons in the Beaumont/Port Arthur, Dallas/Fort Worth, El Paso, and Houston/Galveston areas as defined in §115.10 of this title (relating to Definitions), the following exemptions apply.

(1) Degassing or cleaning any vessel with a vapor space partial pressure less than 0.5 pounds per square inch absolute (3.4 Kpa) of volatile organic compound (VOC) under actual storage conditions is exempt from the requirements of this undesignated head.

(2) Degassing or cleaning any transport vessel with a nominal storage capacity of less than 8,000 gallons, or any stationary VOC storage tank with a nominal storage capacity of less than 1,000,000 gallons, or any marine vessel with a nominal storage capacity of less than 10,000 barrels (420,000 gallons), is exempt from the requirements of this undesignated head.

(3) Any stationary VOC storage tank during preventative maintenance, roof repair, primary seal inspection, or removal and installation of a secondary seal, if product is not moved in or out of the storage tank, emissions are minimized, and the repair is completed within seven calendar days.

(4) Any marine vessel which has sustained damage which prevents a cargo tanks opening from being properly secured, the onboard vapor recovery system to be inoperative, or the pressure/vacuum relief valves from operating within certified limits as specified by classification society or flag state is exempt from §115.541(b) and §115.542(b) of this title (relating to Emission Specification and Control Requirements); however, all reasonable measures shall be taken to minimize VOC emissions.

(5) Any oceangoing, self-propelled marine vessel is exempt from the degassing or cleaning requirements of this undesignated head.

Adopted February 14, 1996 Effective March 7, 1996

§115.549. Counties and Compliance Schedules.

(a) All affected persons in the Brazoria, Chambers, El Paso, Fort Bend, Galveston, Hardin, Harris, Jefferson, Liberty, Montgomery, Orange, and Waller Counties shall be in compliance with this undesignated head (relating to Degassing or Cleaning of Stationary, Marine, and Transport Vessels) as soon as practicable, but no later than November 15, 1996.

(b) All affected persons in Collin, Dallas, Denton, and Tarrant Counties shall be in compliance with this undesignated head as soon as practicable, but no later than one year, after the Texas Natural Resource Conservation Commission (TNRCC) publishes notification in the Texas Register of its determination that this contingency rule is necessary as a result of failure to attain the national ambient air quality standard (NAAQS) for ozone by the attainment deadline or failure to demonstrate reasonable further progress as set forth in the 1990 Amendments to the Federal Clean Air Act (FCAA), §172(c)(9).

(c) All affected persons in El Paso County shall be in compliance with this undesignated head as soon as practicable, but no later than one year, after the TNRCC publishes notification in the Texas Register of its determination that this contingency rule is necessary as a result of failure to attain the NAAQS for ozone by the attainment deadline or failure to demonstrate reasonable further progress as set forth in the 1990 Amendments to the FCAA, §172(c)(9).

Adopted February 14,1996 Effective March 7, 1996

PETROLEUM DRY CLEANING SYSTEMS

§115.552. Control Requirements.

(a) For the Dallas/Fort Worth, El Paso, and Houston/Galveston areas as defined in §115.10 of this title (relating to Definitions), the owner or operator of any dry cleaning facility which uses petroleum-based solvents shall not operate the facility unless the following requirements are satisfied.

(1) Dryers. The owner or operator of a dry cleaning facility shall either:

(A) install, maintain, and operate a solvent-recovery dryer that recovers at least 85% by weight of the used petroleum solvent;

(B) install, maintain, and operate a petroleum dry-to-dry dryer that recovers at least 85% by weight of the used petroleum solvent; or

(C) route the exhaust air stream from the standard dryer to any other properly functioning control device which reduces the total emissions of volatile organic compounds (VOC) to the atmosphere by at least 85% by weight.

(2) Filtration systems. The owner or operator of a petroleum solvent filtration system shall either:

(A) install, maintain, and operate a cartridge filtration system according to the manufacturer's recommendations. The owner or operator shall drain all filter cartridges in their closed housings for at least eight hours before their removal; or

(B) maintain and operate a regenerative filter or any other filtration medium according to the manufacturers' recommendations. The owner or operator shall drain the filter medium in its closed housing for at least eight hours before its removal. Upon removal, the owner or operator shall directly place the filter medium in disposable vapor tight containers or bags and shall keep these containers or bags vapor tight at all times until they are properly landfilled.

(3) Fugitive emissions. The owner or operator shall ensure that:

(A) there are no visual, audible, or smellable leaks from any portion of the dry cleaning equipment. Visual inspection of all equipment and system components shall be conducted at least weekly.

(B) all washer and dryer traps, access doors, and other parts of the equipment where solvent may be exposed to the atmosphere are kept closed at all times except when required for proper operation or maintenance.

5/5/97 10:30 am Hercules Marine Services - Larry Ballinger

alleged

2/18/97	ETT 112	←
2/18	ETT 115	
2/22	ETT 113 (fuel odor)	
4/5		
4/9	ETT 114	
4/10	ETT 110	
4/16	ETT 115	←
4/27	ETT 112	

Records

2/5 ETT 115 BASF - strip & cold water wash/hot wash
caprolactum

2/9 ETT 110 BASF - strip & blow
normal butanol

2/12 ETT 112 BASF - strip & blow & deballast
normal butanol

2/18 ETT 115 - strip & blow & N_2 purge
normal butanol

2/22 ETT 113 - strip & blow
n-butanol

2/25 115 deballast -

2/26 ETT 114 "

3/2 ETT 112 "

3/4 Tri-Co Southern River ?

3/3 Dixie - stripped water, no blow

3/7 ETT 115 - purged w/ N_2 - stated no air replacement w/ this process, compartment is put underpressure
no record of what was in it

3/3 ETT 115 strip & blow
n-butanol

~~3/14 Dixie TP~~

linger 3/18 ETT 113 Pumpout H_2O, mechanical

3/24 ETT 112 Deballast, hot chemical wash, including vapor recovery, strip & blow dry, wash through header, release to known was IV
analon

3/27 ETT 115 Strip & blow, hot H_2O wash
n-butanol

3/31 - sandblast & paint

4/5 - 2 deballasts ETT 110 & 113

hot wash 4/6 114 & 112 - deballast

4/9 ETT 114 - deballast

4/10 ETT 110 & 115 "

4/11 ETT 113 "

last 4/14 114 "

4/16 - cleaned at Seagull cement tanks - not here

4/17 ETT 110 cleaning - hot chemical wash
analon

4/19 ETT 114 deballast

4/20 ETT 112 strip & blow & gas free
n-butanol

4/21 112 115 deballast

4/23 ETT 113 strip & blow
n-butanol

4/27 ETT 112 strip & blow
n-butanol.

4/28 113 hot chemical wash strip & blow
analon

air put depressure

3/4	ETT 110 caprolactam	cold/hot water wash
3/6	ETT 114 n-butanol	strip & blow
3/6	ETT 112 anolon	strip & blow
3/21	ETT 114	debalcast
3/24	113	"
3/25	114	"
4/1	114	"
4/18	113	"

Total 89 days - cleaned on 16 days

Hot chemical wash -

2/18 ETT 112 may have been here - showed up 2/12 - ~~had~~ was cleaned. Then had internal work so may have stayed until 2/18

4/16 - 115 may have been here just to tie up, but nothing was done to it.

1:45 → BASF 409 238-6153
Met w/ L.H. (Bubba) Moore - Logistics Manager
Mark Hanna Technical Service Representative
409 238 6477
Robert Peters Logistics Coordinator x6161

ash

Info from BASF

2/5	ETT 115	caprolactam extract ~20% water (MSDS provide
2/9	110	cyclohexane
2/12	112	normal butanol
2/18	115	cyclohexane
2/22	113	cyclohexane
3/3	115	n-butanol
3/4	110	caprolactam
3/6	114	cyclohexane
3/6	112	cyclohexane
3/24	112	anolon (MSDS provided)
3/27	115	n-butanol
4/17	110	anolon
4/20	112	cyclohexane
4/23	113	cyclohexane
4/27	112	cyclohexane
4/28	113	anolon

d up
nal

Vapor pressures:

Caprolactam = 0.12 psia
Anolon < 0.04 psia
Cyclohexane = 1.84 psia
n-butanol =

ger
tive

161

5/7

2/9 110
2/18 115
2/28 113
3/6 114
3/6 112
4/20 112
4/23 113
4/27 112

9:30 Copies of above records from Hercules - Gloria Milsap

BASF Citgo / Phillips / Koch / Huntsman / Chevron
= cyclohexane

- anything thing that says strip & blow contained cyclohexane

~10:30 Provided by Suzette Johnson

Material Safety Data Sheet

BASF CORPORATION
3000 CONTINENTAL DRIVE NORTH
MT. OLIVE, NJ 07828
(201) 426-4671

Original Date: 12/12/1994
Revision Date: 07/10/1995

Emergency Telephone: (800) 424-9300 (CHEMTREC)
(800) 832-HELP (BASF Hotline)
BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

CAPROLACTAM EXTRACT SOLUTION
Product ID: KFF 526320
Common Chemical Name:
E-Caprolactam
Synonyms:
2H-Azepin-7-one, hexahydro-2-Oxohexamethylenimine
Molecular Formula:
C(6)H(11)NO (PURE CAPROLACTAM)
Molecular Wt.: 113.2
Chemical Family: Amide

SECTION 2 - INGREDIENTS

Chemical Name:				CAS	Amount
WATER				7732-18-5	20.0 %
PEL/TLV NOT ESTABLISHED					
2H-AZEPIN-2-ONE, HEXAHYDR				105-60-2	80.0 %
ACGIH TLV	STEL	3	MG/CU. M		
	TWA	1	MG/CU. M		

SECTION 3 - PHYSICAL PROPERTIES

Color: Clear
Form/Appearance: Liquid
Odor: Putrid
Odor Intensity: Strong

	Typical	Low/High	U.O.M.
Specific Gravity:	1.056		
pH:	NOT AVAILABLE		

	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:		69 - 268	C	760	MM HG
Freezing Pt:	7		C	760	MM HG
Decomp. Tmp:	NOT AVAILABLE				

Solubility in Water Description: Soluble

	Typical	Low/High	U.O.M.	@ Temperature
Solubility:	525		G/100 G WA	25 C
Vapor Pressure:		6 MM HG	@	120 DEG. C

mm Hg x 0.01933 = psia

SECTION 3 - PHYSICAL PROPERTIES (cont)

	Typical	Low/High	U.O.M.	@ Temperature
Vapor Density (Air = 1):	3.9			
Evaporation Rate Std.:	AIR			

SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low/High	Deg.	Method
Flash Point:	139.2		C	TAG CLOSED CUP
Autoignition:	375		C	NOT SPECIFIED
Flam. Limits:		1.5 - 8	%	

Extinguishing Media:
Use water fog, foam, CO2 or dry chemical extinguishing media.
Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear.
Unusual Hazards:
When heated to decomposition; hydrogen cyanide, carbon monoxide, and ammonia may be emitted.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Toxicology Test Data:
Rat, Oral LD50 - 1660 MG/KG
Moderately Toxic
Rat, Oral LD50 - 8.2 MG/KG
Extremely Toxic
Rat, Dermal LD50 - > 2000 MG/KG
Slightly Toxic
Acute Overexposure Effects:
Contact with the eyes can result in irritation and possible corneal damage. Prolonged or repeated skin contact can result in contact dermatitis and eczema.
Workers who were exposed to caprolactam vapors have complained of nervousness, heartburn, a heavy feeling in the stomach, stuffy nose and head, nosebleeds, a bitter taste, and dry, splitting lips and nose. Acute overexposure to caprolactam may cause CNS effects, including respiratory stimulation, mild circulatory depression, and convulsions.
Chronic Overexposure Effects:
Animal studies indicate that caprolactam may affect the liver and kidneys.
First Aid Procedures - Skin:
Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. If irritation develops, get medical attention.
First Aid Procedures - Eyes:
Immediately rinse eyes with running water for 15 minutes. If

SECTION 5 - HEALTH EFFECTS (cont)

irritation develops, get medical attention.

First Aid Procedures - Ingestion:
If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

First Aid Procedures - Inhalation:
Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:
None known.

First Aid Procedures - Aggravated Medical Conditions:
No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

First Aid Procedures - Special Precautions:
None

SECTION 6 - REACTIVITY DATA

Stability Data:
Stable; Excessive heat and ignition sources.

Incompatability:
Strong oxidizing agents, acids, and bases.

Conditions/Hazards to Avoid:
No data available.

Hazardous Decomposition/Polymerization:
Hazardous Decomposition Products: HCN, CO and CO_2.

Corrosive Properties:
Not corrosive to metal.

Oxidizer Properties:
Not an oxidizer

SECTION 7 - PERSONAL PROTECTION

Clothing:
Gloves, coveralls, apron, boots as necessary to minimize contact.

Eyes:
Chemical goggles. Also wear a face shield if splashing hazard exists. Use side shield safety glasses when handling lab samples.

Respiration:
If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator. Use an air-supplied or self-contained breathing apparatus in emergency or non-routine, high exposure situations.

Ventilation:
Use local exhaust to control to recommended P.E.L.

Explosion Proofing:
None required.

Other Personal Protection Data:
Eyewash fountains and safety showers must be easily accessible.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:
Spills should be contained, solidified, and placed in suitable containers for disposal. This material is not regulated under RCRA. There is a one lb statuatory RQ assigned for this material.

Waste Disposal:
Incinerate or bury in a licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:
Dispose of in a licensed facility. Recommend crushing or other means to prevent unauthorized reuse.

Environmental Toxicity Test Data:
Inherent Biodegradability: Zahn-Wellens - > 70 PERCENT
Good Potential for Elimination
Fish Toxicity, LC0, 48 hr. - 1200 MG/L
No Mortality at Highest Conc. tested
Golden orfe, Static 48 hr LC50 - 500 MG/L
Practically Nontoxic
Rainbow Trout, static 96 hr LC50 - 500-1000 MG/L
Practically Nontoxic
Fish Toxicity, LC0, 48 hr. - 500-1000 MG/L
No Mortality at Highest Conc. tested
Chemical Oxygen Demand - 1960 MG O2/G
TEST RATING NOT FOUND
Biological Oxygen Demand, 5 day - 1110 MG O2/G
TEST RATING NOT FOUND
ISO 7827, Degradation Test (DOC) - 608 MG O2/G
TEST RATING NOT FOUND
Acute Algal Toxicity, 48 hr EC50 - > 500 MG/L
TEST RATING NOT FOUND
Algal, 96 hr EC50 - > 500 MG/L
TEST RATING NOT FOUND

SECTION 9 - STORAGE AND HANDLING

General:
Store materials to avoid sources of ignition and excessive heat.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status
Listed on Inventory: YES

RCRA Haz. Waste No.:
CERCLA: YES **Reportable Qty.: (If YES)** 5000 LBS

Hazard Ratings:

	Health:	Fire:	Reactivity:	Special:
HMIS	2	1	0	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:
REFER TO BASF BILL OF LADING
DOT Technical Name:
REFER TO BASF BILL OF LADING
DOT Primary Hazard Class:
REFER TO BASF BILL OF LADING
DOT Secondary Hazard Class:
REFER TO BASF BILL OF LADING
DOT Label Required:
REFER TO BASF BILL OF LADING
DOT Placard Required:
REFER TO BASF BILL OF LADING
DOT Poison Constituent:
REFER TO BASF BILL OF LADING
BASF Commodity Codes: NA NA **UN/NA Code:** **E/R Guide:**

Bill of Lading Description:
FOR THE MOST UP-TO-DATE D.O.T. SHIPPING DESCRIPTION, PLEASE REFER TO THE BASF BILL OF LADING!

WHILE BASF CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS THE DATE HEREOF, BASF CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSINGLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

END OF DATA SHEET

Material Safety Data Sheet

BASF CORPORATION
3000 CONTINENTAL DRIVE
MT. OLIVE, NJ 07828
(201) 426-4671

Original Date: 10/02/1992
Revision Date: 09/15/1995

Emergency Telephone: (800) 424-9300 (CHEMTREC)
(800) 832-HELP (BASF Hotline)
BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

ANOLON®
Product ID: NCO 526172
Common Chemical Name:
N/A
Synonyms: 2 mm Hg 1 mm Hg
Cyclohexanone/Cyclohexanol Mixture
Molecular Formula:
MIXTURE
Molecular Wt.: NOT APPLICABLE
Chemical Family: Cyclic Ketone and Alcohol

SECTION 2 - INGREDIENTS

Chemical Name:					CAS	Amount
Cyclohexanol					108-93-0	- 60.0 %
ACGIH	TLV	TWA	50	PPM		
OSHA	PEL	TWA	50	PPM		
Cyclohexanone					108-94-1	- 40.0 %
ACGIH	TLV	SKIN				
		TWA	25	PPM		
OSHA	PEL	TWA	50	PPM		

SECTION 3 - PHYSICAL PROPERTIES

Color: Pale Yellow
Form/Appearance: Liquid
Odor: Camphor

	Typical	Low/High	U.O.M.
Specific Gravity:	0.941		
pH:	NOT AVAILABLE		

	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:		75 - 165	C	760	MM HG
Freezing Pt:	NOT AVAILABLE				
Decomp. Tmp:	NOT AVAILABLE				

	Typical	Low/High	U.O.M.	@	Temperature
Solubility:		3.6 - 9	G/100 G WA		20 C

SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low/High	Deg.	Method
Flash Point:	50.6		C	TAG CLOSED CUP
Autoignition:	300		C	NOT SPECIFIED
Flam. Limits:		1.1 - 8.1	%	

Extinguishing Media:
Water fog, alcohol foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Water may be ineffective but should be used to keep exposed containers cool.

Unusual Hazards:
Vapors from heated (above flashpoint) of product may travel to a source of ignition and flash back.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:
Contact with the eyes may result in moderate to severe irritation and corneal injury. Contact with the skin results in moderate irritation; prolonged or repeated contact may cause dermatitis. Material may also be skin absorbed.
Inhalation of cyclohexanone vapors may cause narcosis, headache, drowsiness, tremors and other CNS effects. Cyclohexanone vapors may cause mild irritation to the eyes. Cyclohexanone can be skin absorbed.

Chronic Overexposure Effects:
Based on animal studies, overexposure to cyclohexanol by ingestion, inhalation or absorption can cause CNS depression, lacrimation, nausea, tremors or convulsions. Repeated overexposures in animals also caused tissue damage to the liver, kidney and heart.
Guinea pigs exposed to 4000 ppm of cyclohexanone for a 6-hour period showed signs of CNS depression, lacrimation, salivation, depression of body temperature and respiratory heart rate, and opacity of the cornea. Mice, guinea pigs, and cats exposed to 3800 ppm exhibited the same effects. Based on animal studies, overexposure could lead to liver and/or kidney damage.

First Aid Procedures - Skin:
Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

First Aid Procedures - Eyes:
Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

First Aid Procedures - Ingestion:
If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

SECTION 5 - HEALTH EFFECTS (cont)

First Aid Procedures - Inhalation:
Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:
None known.

First Aid Procedures - Aggravated Medical Conditions:
No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

First Aid Procedures - Special Precautions:
None

SECTION 6 - REACTIVITY DATA

Stability Data:
Stable

Incompatability:
Oxidizing/reducing agents, plastics, resins, rubber.

Conditions/Hazards to Avoid:
Avoid excessive heat and ignition sources.

Hazardous Decomposition/Polymerization:
Hazardous polymerizaton does not occur. Material is stable under normal conditions. Decomposition products are CO and CO2.

Corrosive Properties:
Not corrosive.

Oxidizer Properties:
Not an oxidizer

Other Reactivity Data:
None known.

SECTION 7 - PERSONAL PROTECTION

Clothing:
Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:
Chemical goggles; also wear a face shield if splashing hazard exists.

Respiration:
If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator. Use an air-supplied or self-contained breathing apparatus in emergency or non-routine, high exposure situations.

Ventilation:
Use local exhaust to control to recommended P.E.L.

Explosion Proofing:
Tools should be non-sparking. Exhaust fans should be explosion proof.

Other Personal Protection Data:
Eyewash fountains and safety showers must be easily accessible.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:
Spills should be contained, solidified and placed in suitable

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (cont)

containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

Waste Disposal:

Incinerate at a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

SECTION 9 - STORAGE AND HANDLING

General:

Avoid excessive heat or sources of ignition. Store in clean, cool, well-ventilated no-smoking area in sealed and grounded containers.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No.: D001
CERCLA: YES **Reportable Qty.: (If YES)** 5000 LBS
The RCRA hazardous waste number D001 refers to this material's RCRA hazardous waste characteristic of ignitibility.

Hazard Ratings:

	Health:	Fire:	Reactivity:	Special:
HMIS	2	2	0	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:
REFER TO BASF BILL OF LADING
DOT Technical Name:
REFER TO BASF BILL OF LADING
DOT Primary Hazard Class:
REFER TO BASF BILL OF LADING
DOT Secondary Hazard Class:
REFER TO BASF BILL OF LADING
DOT Label Required:
REFER TO BASF BILL OF LADING
DOT Placard Required:
REFER TO BASF BILL OF LADING
DOT Poison Constituent:
REFER TO BASF BILL OF LADING
BASF Commodity Codes: NA NA **UN/NA Code:** 1993 **E/R Guide:**

Bill of Lading Description:
FOR THE MOST UP-TO-DATE D.O.T. SHIPPING DESCRIPTION, PLEASE REFER TO

SECTION 11 - TRANSPORTATION INFORMATION (cont)

THE BASF BILL OF LADING!

ANOLON
is a registered trademark of BASF Corporation or BASF AG.

WHILE BASF CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS THE DATE HEREOF, BASF CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSINGLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

END OF DATA SHEET

ATTACHMENT 5

BARGE CLEANING REPORT

JOB NO. _____ ETA _____

BARGE NO. EXT2110 DATE/TIME ARRIVAL 2-9-97 2:

CUSTOMER BASF DATE/TIME STARTED 2-9-97 2

PRODUCT N-Butanol DATE/TIME COMPLETED 2-9-97

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: C. Duarte DATE/TIME: 6:00 PM

BARGE RELEASED TO: Brown water IV DATE/TIME: 6:45 PM

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY River NEW CASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CHUS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CHUS NEW CASKET ____ YES ____ NO ____

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD.

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

SUMPS INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Marculer foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 2/9/97 1835 (Time In) 1900 (Time Out)

Inspected By A. Dempsey

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
FTT-110	N/A	Hercules	2-9-97

Tank Number	1,2,3c						
Tank Coating	N/A						
Last Cargo	Coke						
Second Last Cargo	↓						
Third Last Cargo	↓						
Time/Date Inspected	2-9-97/1830						
Visual Cleanliness Accepted/Rejected*	accepted						
Reason for Rejection	N/A						

Method said to have been used to clean tanks:	TK#	Strip + blow
	TK#	Stripped product from cargo lines + blow dry for 3 hours
	TK#	Stripped product from cargo tanks + blow dry for 1 1/2 hours
	TK#	
	TK#	
	TK#	
	TK#	

ormation regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

e cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or port of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner suppliers of the coating.

94A

FOR CALEB BRETT

BARGE CLEANING REPORT

JOB NO. 5402

BARGE NO. EH-115

CUSTOMER BASF

PRODUCT N-BUTANOL

ETA

DATE/TIME ARRIVAL 2-18-97-10:3

DATE/TIME STARTED 2-18-97 11:

DATE/TIME COMPLETE 2-18-97 11:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: [illegible] DATE/TIME: 3:30

BARGE RELEASED TO: Brov water VH DATE/TIME: 5:30

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY Cruz NEW CASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Cruz

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW CASKET ____ YES ____ NO ____

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 70 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: no PIPELINE BLOWN yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SIMPS INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 18 /FEB/97 1530 Time In 1555 Time Out

Inspected By [illegible]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HERCULES
MARINE SERVICES CORPORATION
P.O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3768

DATE : Feb. 18, 1997

Job No. : 2-5402

Location : Freeport, TX

BASF
602 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

Service to the ETT 115 as follows:

Strip and Blow. Purge cargo tanks with nitrogen.

LABOR:	Leadman	5 Hrs.	@	35.00	(ST)	$ 175.00
	Leadman	3.5 Hrs.	@	49.50	(OT)	173.25
	Journeyman	23 Hrs.	@	32.50	(ST)	747.50
	Journeyman	3.5 Hrs.	@	45.75	(OT)	160.12
STOCK:	31.00	Plus 25%	@	7.75		38.75
EQUIPMENT:	Compressor	5 Hrs.	@	48.00		240.00
	Air Movers	20 Hrs.	@	5.00		100.00
	Forklift	3 Hrs.	@	30.00		90.00
	Vacuum	3 Hrs.	@	30.00		90.00
	Hand Hose	3 Hrs.	@	12.00		36.00

TOTAL AMOUNT DUE $1,850.62

PHONE: (409) 233-6371

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 2-22-97 Supervisor [illegible]

Plant Hercules Marine Client Safety

Area Gas Free Dock

ETT-113

The following listed materials are considered to be hazardous to the employees working in this area:

N. Butanol

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
[illegible]			
[illegible]			
[illegible]			

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3771
DATE : Feb. 22, 1997
Job No. : 2-5405
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the ETT 113 as follows:

Strip and blow dry. Check for fractures. Chemist. COI Inspection. Deballast stone rake. Replaced two wing nuts and bolts of hatch. Grease all wing bolts and nuts on hatches. Test vapor line; cargo line for inspection. Repair emergency shut off cable (stuck on wheel).

LABOR:	Leadman	11.5 Hrs.		@	35.00 (ST)	$ 402.50
	Journeyman	59.5 Hrs.		@	32.50 (ST)	1,933.75
WATER:	70,000 Gallons			@	5.00/1,000 Gals.	350.00
STOCK:	70.60	Plus 25%		@	17.65	88.25
CHEMIST:	300.00	Plus 25%		@	75.00	375.00
EQUIPMENT:	Compressor	6	Hrs.	@	48.00	288.00
	Air Movers	24	Hrs.	@	5.00	120.00
	Vacuum	4	Hrs.	@	30.00	120.00
	Hand Hose	4	Hrs.	@	12.00	48.00
	3" Gas Pump	2	Hrs.	@	18.00	36.00
	2" Strip Pump	2	Hrs.	@	15.00	30.00
					TOTAL AMOUNT DUE	$ 3,791.50

HONE: (409) 233-6371

BARGE CLEANING REPORT

JOB NO. 5430

BARGE NO. Ettelin

CUSTOMER BASF

PRODUCT N-Butanol

ETA

DATE/TIME ARRIVAL 2-6-97-10:00

DATE/TIME STARTED 2-6-97-3:30

DATE/TIME COMPLETE 3-7-97-7:00

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: Duarte DATE/TIME: 2-7-97-6:30

BARGE RELEASED TO: Brow Carol DATE/TIME:

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____

DECK HEADER BLINDS OPEN: YES INSPECTED BY CALEB BRETT ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ____ YES ____ NO

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD.

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 65 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: NO PIPELINE BLOWN YES INSPECTED BY CALEB BRETT ____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SIMPS INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 3/7/97 1800 Time In 1835 Time Out

Inspected By [illegible]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3796
DATE : March 6, 1997
Job No. : 3-5430
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the EIT 114 as follows:

Remove pump from old mount, fit and weld new mount plate, install pump. Weld broken welds and fractures, using boat for welding off of at bow rake. Weld fracture at stern box. Strip and blow dry. Gas free for chemist inspection.

LABOR:	Leadman	7.5 Hrs.	@	35.00 (ST)	$ 262.50
	Leadman	8.5 Hrs.	@	49.50 (OT)	$ 420.75
	Journeyman	21 Hrs.	@	32.50 (ST)	$ 682.50
	Journeyman	26 Hrs.	@	45.75 (OT)	$ 1,189.50
STOCK:	$77.00	Plus 25%	@	19.25	$ 96.25
CHEMIST:	$300.00	Plus 25%	@	75.00	$ 375.00
EQUIPMENT:	Compressor	5 Hrs.	@	48.00/Hr.	$ 240.00
	Air Movers	20 Hrs.	@	5.00/Hr.	$ 100.00
	Vacuum	3 Hrs.	@	30.00/Hr.	$ 90.00
	Hand Hose	4 Hrs.	@	12.00/Hr.	$ 48.00
	Tugboat	1 Hr.	@	100.00/Hr.	$ 100.00
	Cherry Picker	3 Hrs.	@	70.00/Hr.	$ 210.00
MATERIAL:	$57.00	Plus 25%	@	14.25	$ 71.25
				TOTAL AMOUNT DUE	$ 3,885.75

PHONE: (409) 233-6371

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 3-6-97

Plant Hercules

Area HAS Free Dock

Eff=112

Supervisor [illegible]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

N-Butanol

The employee assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
Juan J. Quintu			
Jose A Casas			
[illegible]			
Agero Cruz			

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3797
DATE : March 6, 1997
Job No. : 3-5431
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the ETT 112 as follows:

Start loading truck (6) onto barge.
Ballast wing tank #4 to level out barge for transport.
Strip and blow dry one pump out,wing tank #1,2,3,4.

LABOR:	Leadman	12 Hrs.	@	35.00(ST)	$ 420.00
	Leadman	4 Hrs.	@	49.50(OT)	$ 198.00
	Journeyman	23.5 Hrs.	@	32.50(ST)	$ 763.75
	Journeyman	4 Hrs.	@	45.75(OT)	$ 183.00
STOCK:	$45.00	Plus 25%	@	11.25	$ 56.25
EQUIPMENT:	Compressor	5 Hrs.	@	48.00/Hr.	$ 240.00
	Air Movers	20 Hrs.	@	5.00/Hr.	$ 100.00
	Vacuum	3 Hrs.	@	30.00/Hr.	$ 90.00
	Hand Hose	3 Hrs.	@	12.00/Hr.	$ 36.00
	2" Strip Pump	3 Hrs.	@	15.00/Hr.	$ 45.00
				TOTAL AMOUNT DUE	$ 2,132.00

PHONE: (409) 233-6371

JOB NO. 5090 ETA

BARGE NO. ETT 113 DATE/TIME ARRIVAL 4-23-97 1:0

CUSTOMER BASF DATE/TIME STARTED 4-23-97 1:

PRODUCT N. BUTANOL DATE/TIME COMPLETED 4-23-97

DISPOSAL AMOUNT _____ AMOUNT STRIPPED 200

CLEANING INSTRUCTION BY: Robert Peters BY: _____

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: Claudio Osuna DATE/TIME: 6:30

BARGE RELEASED TO: Brow Water IV DATE/TIME: _____

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ____ NO ____

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

[illegible] OF TANK VALVES GOD

[illegible] TANK STRIPPED: YES N/A NO ____ PIPE PRESSURE TEST DATE: _____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ____

PIPELINE WASHED: NO PIPELINE BLOWN YES PIPELINE SUMPS INSPECTED ____ _____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The forman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected April 23 1997 1830 Time In 1900 Time Out

Inspected By [signature]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 4-23-87 Supervisor [illegible]

Plant HERCULES MARINE Client Safety _____

Area GAS FREE DOCK

The following listed materials are considered to be hazardous to the employe working in this area:

N-BUTANOL

The employee assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
Jose J [illegible]			
Edgar Cruz			
Jose A Cortez			

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 4-5494

DATE

ORDER WRITTEN: 4-23-97	ETA: 11:30 a.m.
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

CUSTOMER

NAME: BASF	
BILLING ADDRESS	
CITY AND STATE: FREEPORT, TX	
PHONE NUMBER	

M/V ☐ BARGE ☒

NAME: ETT 113

LOA	WIDTH

FOREMAN

LAST PRODUCT

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

WORK AUTHORIZED BY: SUZETTE | O/T AUTHORIZ.

STOCK MATERIAL ☐ YES ☐ N

IF YES, COMPLETE STOCK MATERIAL TRANS

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ N

ITEM NUMBERS

1 STRIP AND BLOW DRY. RELEASE TO BROWN WATER IV.

2

3

4

5

6

7

8

ITEM NUMBERS

1 STRIP AND BLOW DRY. RELEASE TO BROWN WATER IV.

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: [illegible] Date: 4-23-97

HERCULES OFFSHORE CO.

INVOICE NO. 3862

MARINE REPAIR ORDER No. 4-5497

MARINE OPERATIONS FACILITY

CUSTOMER P.O.

DATE

ORDER WRITTEN: 4-27-97

ETA:

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: Freeport

PHONE NUMBER:

M/V ☐ BARGE ☑

NAME: ETT 112

LOA:

WIDTH:

FOREMAN: C. Duarte

LAST PRODUCT:

WORK AUTHORIZED BY:

O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE:

ON WAYS DATE:

ITEM NUMBERS

1 Strip & Blow Dry
Deballast — Gas Free
Chemist

2

3

4

5

6

7

No signature on bottom

8

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. _____

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 4-26-97

ETA:

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☑

NAME: ETT 112

LOA:

WIDTH:

FOREMAN: C. Duarte

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE:

PHONE NUMBER:

WORK AUTHORIZED BY:

C/Y AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Deballast / Strip & Blow Dry Air Gas Free for Chemist
Inspection. Reballast ~~before~~ Bow Rake (to Normal
2 Ballast) before releasing to M/V Barron Water II

3

4

5

6

7

8

1 Deballast / Strip & Clean Ship for Gas Free for Chemical
Inspection. Reballast ~~before~~ Bow Rake (to Normal
2 Ballast) before releasing to M/V Brown Water IV

3

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5

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9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: [illegible] Date: 4-26-97

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 4-27-97

Plant Hercules Marine

Area GAS Free Dock

Supervisor [illegible]

Client Safety _____

The following listed materials are considered to be hazardous to the employee working in this area:

Asphalt

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]	000		
[illegible]			
[illegible]			
[illegible]			

HERCULES
MARINE SERVICES CORPORATION
P.O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3853
DATE : 4-21-97
Job No. : 4-5488
Location : Freeport, TX

BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

Services to the ETT 112 as follows:

Strip and blow dry. Deballast wing tank #4 and bow rake.
Weld two fractures, one on stern box and one on bow rake.
Weld dog back on wing tank hatch cover.

LABOR:	Leadman	5 Hrs.	@	35.00 (ST)	$ 175.00
	Leadman	3.5 Hrs.	@	49.50 (OT)	$ 173.25
	Journeyman	15 Hrs.	@	32.50 (ST)	$ 487.50
	Journeyman	10.5 Hrs.	@	45.75 (OT)	$ 480.38
STOCK:	$49.00	Plus 25%	@	12.25	$ 61.25
CHEMIST:	$300.00	Plus 25%	@	75.00	$ 375.00
EQUIPMENT:	Compressor	8 Hrs.	@	48.00/Hr.	$ 384.00
	Air Movers	32 Hrs.	@	5.00/Hr.	$ 160.00
	Vacuum	4 Hrs.	@	30.00/Hr.	$ 120.00
	Hand Hose	3 Hrs.	@	12.00/Hr.	$ 36.00
	2" Strip Pmp	8 Hrs.	@	15.00/Hr.	$ 120.00
	3" Gas Pump	12 Hrs.	@	18.00/Hr.	$ 216.00
	Weld Machine	2 Hrs.	@	15.00/Hr.	$ 30.00
	Cutting Rig	1 Hr.	@	8.00/Hr.	$ 8.00

TOTAL AMOUNT DUE $2,826.38

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

BARGE CLEANING REPORT

JOB NO. 4-5488

BARGE NO. ETT-112

CONTRACTOR BASIC

PRODUCT Normal Butanal

ETA 0800

DATE/TIME ARRIVAL 4-21-97/0[illegible]

DATE/TIME STARTED 4-21-97/0[illegible]

DATE/TIME COMPLETE 4-21-97/19[illegible]

AMOUNT STRIPPED _____

CLEANING INSTRUCTION BY: Suzette

COMPLETION SCHEDULE BY: Suzette

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: Charlie DATE/TIME: 4-21-97/19:06

BARGE RELEASED TO: Brown Water IV DATE/TIME: _____

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____

DECK CHECK VALVE OPENED: YES ✓ NO ____ CLOSED BY Juan NEW CASKET ✓ YES ____ NO ____

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT ✓

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Juan

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Juan NEW CASKET ____ YES ✓ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80° RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ____ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN yes INSPECTED BY CALEB BRETT _____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

SIMPS INSPECTED yes

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 4 / 21 / 97 1900 (Time In) 1920 (Time Out)

Inspected By Charlie Bennett - Caleb BRETT

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT INSPECTED AND RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 4-21-97

Plant HERCULES

Area GAS FREE DOCK

Supervisor [illegible]

Client Safety

The following listed materials are considered to be hazardous to the employee working in this area:

N-BUTANOL

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
[illegible]			
[illegible]			
[illegible]			

ATTACHMENT 6

BASF Corporation

BASF

BASF WEEKEND BARGE SCHEDULE

DATE 07-Feb-97 - 09:52 AM

ETT 110: Loaded (Citgo 1) enroute to Freeport, via Brown Water VII. ETA Freeport 2400. Spot barge at dock upon arrival. Barge will need to be gauged and sampled. Will discharge 0730 Saturday. Take to W/F after discharge is complete. Brown Water VII will take to Corpus to load (Citgo 2). * Priority 1 / # Priority 3

ETT 112: Loaded (2.8 M lbs. of NBOL) enroute to Stantran, via Brown Water IV. ETA Stantran 1200. Will discharge and return to Freeport. Bring to B-1 Wall on Low tide 0900 Sunday. Spot at dock after the ETT 113 has completed discharging. Barge will need to be gauged and sampled. Will load (2.8 M lbs. of NBOL) 0730 Monday. * Priority 5

ETT 113: Loaded (Koch 1) enroute to Freeport, via Brown Canal. ETA Freeport 1200 Saturday. Spot barge at dock after the ETT 110 has completed discharging. Barge will need to be gauged and sampled. Will discharge 1200 Sunday. Take to W/F after discharge is complete. Brown Canal will take to Phillips to load (Phillips 2) Monday. * Priority 3 / # Priority 5

ETT 114: Discharging (Phillips 1) at dock. Take to W/F after discharge is complete. Brown Water IV will take to Corpus to load (Koch 2). # Priority 1

ETT 115: Empty (CPLX) at Hercules having pipeline repaired and cleaned.

CCI 75: Loaded (All Oleum) enroute to Freeport. ETA 2000. Spot at dock after the SCC 108 has completed discharging. Barge will discharge 1200 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 4 / # Priority 6

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc. Will load and return to Freeport. Spot at dock after the CCI 75 has completed discharging. Barge will discharge 0730 Monday. * Priority 6

SCC 80: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 108: Loaded (All Acid) enroute to Freeport. ETA 2000. Spot barge at dock after the SCC 104 has completed discharging. Barge will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 2 / # Priority 4

SCC 104: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority 2

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 10-Feb-97 - 10:22 AM

ETT 110: Empty and clean enroute to Stantran to load (2.8 M lbs. of CPLX), via Brown Canal.

ETT 112: Loading (2.8 M lbs. of NBOL) at dock. Take to W/F after loading is complete. Brown Canal will take to Stantran for discharge after they return from loading (CPLX). **# Priority 2**

ETT 113: Empty (Cyclohexane) at B-1 Wall. Take to W/F on Low tide 1100 today. Brown Water IV will take to Corpus to load (Citgo 2). **# Priority 1**

ETT 114: Loading (Koch 2) at Corpus, via Brown Water VII. Spot barge at dock immediately upon arrival at Freeport.

ETT 115: Empty (Clean) at Hercules having gearbox repaired.

CCI 75: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 106: Loaded (All Acid) enroute to Freeport. ETA 1100 today. Spot at dock upon arrival. Barge will discharge as soon as spotted at dock. Take to W/F after discharge is complete. Hold for Tug Javalina.

*** Priority 1 / # Priority 3**

SCC 80: Loaded (All Oleum) enroute to Freeport. ETA 1100. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 1200 Tuesday. *** Priority 2**

SCC 108: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 104: Empty (All Oleum) at W/F. Hold for Tug Javalina.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 18-Feb-97 - 10:12 AM

ETT 110: Partially loaded (CPLX) at B-1 Wall. Hold until further notice.

ETT 112: Empty (Clean) at Hercules for USCG MidTerm and repairs.

ETT 113: Discharging (Chevron 1) at dock. Take to W/F after discharge is complete on Low tide 0400 Wednesday. Brown Water IV will take to Phillips to load (Phillips 3) 0800 Thursday. **# Priority 1**

ETT 114: Loaded (Koch 3) enroute to Freeport, via Brown Canal. ETA 1500. Spot at dock after the ETT 113 has completed discharging. Barge will need to be gauged and sampled. Will discharge 1200 Wednesday. *** Priority 1**

ETT 115: Empty enroute to Hercules for a Strip, & Blow Dry and Nitrogen pad. Brown Water VII will take to Stantran to load (2.8 M lbs. of NBOL) for shipment to Union Carbide, Seadrift.

CCI 75: Empty (All Oleum) enroute to Rhone-Poulenc. ETA Houston 1500.

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc. ETA Houston 1500.

SCC 80: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. **# Priority 2**

SCC 108: Loaded (All Acid) at W/F. Spot at dock after the SCC 80 has completed discharging. Barge will discharge 1200 Wednesday. *** Priority 2**

SCC 104: Loaded (All Oleum) at Rhone-Poulenc.

*** – Priority to dock**
 # – Priority out to skimmer gate

 # – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

BASF Corporation

BASF

BASF WEEKEND BARGE SCHEDULE

DATE 21-Feb-97 - 11:02 AM

ETT 110: Loading (2.8 M lbs. of CPLX) at Stantran, via Brown Water IV. Spot at dock Sunday after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Barge will partially discharge 0730 Monday. * Priority 4

ETT 112: Empty (Clean) enroute to Corpus to load (Koch 4), via Brown Canal. ETA Corpus 1200. Spot barge at dock upon arrival at Freeport. Barge will need to be gauged and sampled. Will discharge 0730 Sunday. Take to W/F after discharge is complete on Low tide 0900 Monday. * Priority 2 / # Priority 3

ETT 113: Discharging (Phillips 3) at dock. Take to W/F after discharge is complete on Low tide 0800 Saturday. Take barge to Hercules for preparation for USCG COI Monday. # Priority 1

ETT 114: Empty (Cyclohexane) at W/F. Brown Water IV will take to Brown Water VII to take to Corpus to load (Citgo 3).

ETT 115: Discharging (NBOL) at Union Carbide, Seadrift, TX. Will return to Freeport, via Brown Water IV. Hold at W/F after arrival at Freeport.

CCI 75: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 3 / # Priority 4

SCC 106: Loaded (All Acid) at W/F. Spot at dock today. Barge will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 1 / # Priority 2

SCC 80: Empty (All Oleum) enroute to Rhone-Poulenc. ETA Houston 1700.

SCC 108: Empty (All Acid) enroute to Rhone-Poulenc. ETA Houston 1700.

SCC 104: Empty (All Oleum) at W/F. Hold for Tug Javalina.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 24-Feb-97 - 10:00 AM

ETT 110: Partially discharging (CPLX) at dock. Move to B-1 Wall after partial discharge is complete. Hold at B-1 Wall until further notice.

ETT 112: Loaded (Koch 4) enroute to dock. ETA dock 1200. Barge will need to be gauged and sampled. Barge will discharge as soon as spotted at dock. Take to W/F after discharge is complete on Low tide 2200 tonight. Brown Water VII will take to Corpus to load (Citgo 4). * Priority 1 / # Priority 1

ETT 113: Empty (Cyclohexane) at Hercules for USCG COI. Brown Canal will take to Corpus after COI has been completed to load (Koch 5).

ETT 114: Loaded (Citgo 3) enroute to Freeport. ETA 2100. Spot at dock after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Will discharge 0730 Tuesday. * Priority 2

ETT 115: Empty (NBOL) at W/F. Hold until further ntoice.

CCI 75: Empty (All Oleum) enroute to Rhone-Poulenc.

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc.

SCC 80: Loaded (All Oleum) at W/F. Hold until further notice.

SCC 108: Loaded (All Acid) at W/F. Spot at dock after the ETT 110 has completed partially discharging (CPLX). Barge will discharge 0730 Tuesday. * Priority 3

SCC 104: Loading (All Oleum) at Rhone-Poulenc.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 06-Mar-97 - 09:49 AM

ETT 110:	Empty (CPLX) at Hercules for USCG Mid-Term and internal structural exam.
ETT 112:	Empty at Hercules being stripped and blown dry in preparation for loading Anolon.
ETT 113:	Empty (Cyclohexane) enroute to Corpus to load (Koch 2), via Brown Water VII.
ETT 114:	Empty (Cyclohexane) at Hercules for minor repairs.
ETT 115:	At Hercules for USCG COI.
CCI 75:	Empty (All Oleum) enroute to Rhone-Poulenc.
SCC 106:	Loaded (All Acid) at W/F. Hold at W/F until further notice.
SCC 80:	Empty (All Oleum) at Rhone-Poulenc.
SCC 108:	Empty (All Acid) at Rhone-Poulenc.
SCC 104:	Loaded (All Oleum) at W/F. Hold at W/F until further notice.

* - Priority to dock
\# - Priority out to skimmer gate

\# - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF WEEKEND BARGE SCHEDULE

DATE 18-Apr-97 - 11:38 AM

ETT 110: Empty (Clean) at W/F. Hold until further notice.

ETT 112: Loaded (Koch 3) at W/F. Spot at dock after the ETT 114 has completed discharging (CPLX). Barge will need to be gauged and sampled. Barge will discharge 0730 Saturday. Barge will be ballasted while being discharged. Take to W/F after discharge is complete, as soon as tide allows. Brown Water IV will take to Hercules for deballasting Monday 0800. * Priority 1 / # Priority 3

ETT 113: Empty (Cyclohexane) enroute to Corpus to load (Koch 4), via Brown Water VI. Hold at W/F upon return to Freeport.

ETT 114: Partially loaded (1,503,532 lbs. of CPLX) at B-1 Wall. Spot at West (Hexane) End of dock at 1730 today. Barge will need to be gauged and sampled. Will complete discharging 1800. Barge will be ballasted while being discharged. Take to W/F after discharge is complete, as soon as tide allows. Brown Water IV will take to Hercules for deballasting, then to Stantran to load (2.8 M lbs. of CPLX). Spot at dock after the ETT 115 has completed discharging. Barge will need to be gauged and sampled. Barge will discharge 0730 Monday.

Priority 1 / * Priority 4

ETT 115: Loaded (Citgo 2) enroute to Freeport, via Brown Canal. ETA Freeport 1600 Saturday. Spot at dock after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Barge will discharge 1200 Sunday. Barge will be ballasted while being discharged. Take to W/F after discharge is complete, as soon as tide allows. Brown Canal will take to Hercules 0800 Monday for deballasting, then to Phillips to load (Phillips 5). * Priority 3 / # Priority 5

CCI 75: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Tug Javalina is standing by. # Priority 2

SCC 106: Loaded (All Acid) at W/F. Spot at dock after the SCC 104 has completed discharging. Barge will discharge 0730 Monday. * Priority 5

SCC 80: Loading (All Oleum) at Rhone-Poulenc.

SCC 108: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 104: Loaded (All Oleum) at W/F. Spot at dock after the CCI 75 has completed discharging. Barge will discharge 0730 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina.

* Priority 2 / # Priority 4

* – Priority to dock
\# – Priority out to skimmer gate

– All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters Office: 238-6161 Home: 798-4162 Pager: (713) 604-2418

Suzette Johnson Office: 238-8409 Home: 265-5120 Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 21-Apr-97 - 11:26 AM

ETT 110: Empty (Clean) at W/F. Brown Water VI will take to Corpus to load (Citgo 3) on 04/24/97.

ETT 112: Empty (Cycloexane) at Hercules being repaired and deballasted. Brown Canal will take to Corpus to load (Koch 5).

ETT 113: Loaded (Koch 4) enroute to Freeport, via Brown Water VI. ETA 2100. Spot at dock upon arrival. Barge will need to be gauged and sampled. Barge will discharge 0730 Tuesday. * Priority 1

ETT 114: Partially loaded (1,503,532 lbs. of CPLX) at dock. Move to B-1 Wall and hold until further notice.

ETT 115: Empty (Cyclohexane) at Herculews being deballasted. Brown Canal will take to Phillips to load (Phillips 5) at 1300 today. Hold at W/F.

CCI 75: Empty (All Oleum) enroute to Rhone-Poulenc.

SCC 106: Discharging (All Acid) at dock. Take to W/F afetr discharge is complete. Hold for Tug Javalina. # Priority 1

SCC 80: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Tuesday. * Priority 2

SCC 108: Loaded (All Acid) at W/F. Hold until further notice.

SCC 104: Empty (All Oleum) enroute to Rhone-Poulenc.

* - Priority to dock
\# - Priority out to skimmer gate

\# - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 23-Apr-97 - 11:31 AM

ETT 110: Empty (Clean) at Rockport. Brown Water VI is having minor maintenance repairs. Will go to Corpus 04/25/97 to load (Citgo 3).

ETT 112: Empty (Cyclohexane) at Rockport for Crew change, via Brown Canal. Will go to Corpus to load (Koch 5) after crew change and return to Freeport.

ETT 113: Empty (Cyclohexane) at W/F. Brown Water IV will take to Hercules for a Strip and Blow Dry, then return to W/F. Hold at W/F until further notice.

ETT 114: Loaded (2.8 M lbs. of CPLX) at B-1 Wall. Hold until further notice.

ETT 115: Discharging (Phillips 5) at dock. Take to W/F after discharge is complete on Low tide 2200 tonight. **# Priority 1**

CCI 75: Loaded (All Oleum) at Rhone-Poulenc.

SCC 106: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 80: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 108: Loaded (All Acid) at W/F. Spot at dock today. Barge will discharge 0730 Thursday. *** Priority 1**

SCC 104: Loaded (All Oleum) at Rhone-Poulenc.

* – Priority to dock
# – Priority out to skimmer gate

 # – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

BASF Corporation

BASF

BASF WEEKEND BARGE SCHEDULE

DATE 25-Apr-97 - 04:21 PM

ETT 110: Loaded (Citgo 3) enroute to Freeport, via Brown Water VI. Spot at dock after the ETT 113 has completed loading (Anolon). Barge will need to be gauged and sampled. Barge will discharge 0730 Sunday. Take to W/F on Low tide 0100 Monday. Brown Water VI will take to Corpus to load (Citgo 4) on 04/29/97.

* Priority 3 / # Priority 5

ETT 112: Loaded (Koch 5) enroute. Spot at dock upon arrival. Crew will be standing by to discharge. Take to W/F after discharge is complete. Brown Water VI will take to Corpus to load (Koch 6) on 04/28/97 # Priority 1

ETT 113: Empty at W/F Spot on B-1 Wall as soon as low tide will permit. Spot at dock after the ETT 112 has completed discharge. Barge will need to be gauged and sampled. Will load (2.2 M lbs. of Anolon) 0730 Saturday. Take to W/F as soon as discharge is complete and the tide permits. Brown Water IV will take to Stantran for discharge at 0800 Sunday. Hold at W/F upon return to Freeport. * Priority 1 / # Priority 3

ETT 114: Loaded (2.8 M lbs. of CPLX) at B-1 Wall. Hold until further notice.

ETT 115: Empty at W/F. Brown Canal to load at Phillips (Phillips 6). Spot at dock after the ETT 110 has completed discharge Sunday. Barge will need to be gauged and sampled. Will discharge 0730 Monday.

* Priority 4

CCI 75: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina.

Priority 2

SCC 106: Loading (All Acid) at Rhone-Poulenc. Upon return to Freeport, spot at dock after the SCC 104 has completed discharging. Barge will discharge 0730 Monday. * Priority 5

SCC 80: Loading (All Oleum) at Rhone-Poulenc. Hold at W/F upon return to Freeport.

SCC 108: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 104: Loaded (All Oleum) at W/F. Spot at dock after CCI 75 has completed discharging. Barge will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javalina.

* Priority 2 / # Priority 4

* – Priority to dock
# – Priority out to skimmer gate

– All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 28-Apr-97 - 11:36 AM

ETT 110: Empty (Cyclohexane) enroute to Corpus to load (Koch 6), via Brown Canal. ETA Corpus 0600 Tuesday. Barge dock will not be available until 1600 Tuesday. Barge will load at this time and return to Freeport.

ETT 112: Empty (Cyclohexane) at Hercules being repaired.

ETT 113: Empty (Anolon) enroute to Freeport, via Brown Water IV. Barge will go to Hercules for Hot Chemical Wash.

ETT 114: Loaded (2.8 M lbs. of CPLX) at B-1 Wall. Spot at dock after the ETT 115 has completed discharging. Barge will need to be gauged and sampled. Will partially discharge 0730 Tuesday. * Priority 1

ETT 115: Discharging (Phillips 6) at dock. Take to W/F after discharge is complete on Low tide 0200 Tuesday. Brown Water VI will take to Phillips to load (Phillips 4). # Priority 1

CCI 75: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 106: Discharging (All Acid) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority 2

SCC 80: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Tuesday. * Priority 2

SCC 108: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 104: Empty (All Oleum) at W/F. Hold for Tug Javalina.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

ATTACHMENT 7

permit, satisfy the conditions for a flexible permit, or satisfy the conditions for exempt facilities before any actual work is begun on the facility.
Hercules operates this facility under a Permit Exemption, a Standard Permit, and three standard exemptions in compliance with this rule.
A letter from Hercules to the former Texas Air Control Board dated December 11, 1991 requested an amendment to the permit exemption X-13561 due to a projected increase in the number of barges cleaned annually from the original level of approximately 150 barges to a projected 240 barges annually. It does not appear this increase actually occurred as Hercules currently cleans approximately 4 to 6 barges per month. If the increase does occur a permit will be required as amendments to permit exemptions are no longer issued.

Rule 116.115 - General and Special Conditions (IAC)

Permit Exemption X-3561 - The company applied for and received this exemption for their barge cleaning facility on June 8, 1982. VOC emissions are limited to 17.4 tons per year. Hercules has reported VOC emissions of three tons per year. This exemption also has requirements related to Heater H-1. This heater has been removed from the site.

Standard Exemption 7 (1992 version - for a 125 horsepower steam boiler) - IC.
(a) - The only emissions are products of the combustion of the fuel.
(b) - The heat input is less than 40 million Btu per hour and is fired with propane which contains less than 0.1 grains of total sulfur per dry standard cubic foot.
(c) - Not applicable. The boiler is not oil fired.
(d) - Not applicable. The heat input is less than 10 million Btu/hr.

Standard Exemption 75 (1989 version - for painting of marine vessels and offshore equipment)
(a) - Not applicable. Surface coating operations are not performed indoors or in an enclosed work area.
(b) - IC. The surface coating operations are performed outdoors. Coating materials do not contain any chromates and all coating materials are a resin and/or pigment combination dissolved in a fast drying lacquer solvent where drying occurs by evaporation. Spraying is not done if the wind speed exceeds 13 miles per hour. Hercules also does not paint if there is an east wind in an effort to avoid complaints. No spraying is conducted less than 20 feet from the property line and 100 feet from the nearest residence.
(c) - Hercules does not operate under this scenario.
(d) - IC. Hercules keeps records of hours of operation and usage

of coating materials and solvents in sufficient detail to determine compliance with this exemption. Records for October and November 1996 are included as Attachment F.
(e) - NIC. Hercules has not met the VOC limits under Regulation V surface coating rules. Please see the discussion under Rule 115.421.

SE 102 (1989 version for abrasive blasting) - IC.
(a) - Not applicable. This is not an enclosed operation.
(b)(1) - IC. Abrasive usage rate does not exceed 150 tpy, 15 tons per month, or 1 ton per day.
(2) - IC. Blast cleaning is performed more than 500 feet from any off site receptor.
(3) - IC. Records are kept of operating hours and material usage. The records for October and November 1996 are located in Attachment K.
(4) - Pending. A PI-7 form was filed with the TNRCC Regional office according to Mr. Ballinger. A copy of the PI-7 has not been found in the TNRCC files. Mr. Ballinger has agreed to fill out a new PI-7 form.
(5) - Pending. Written site approval was received according to Mr. Ballinger. A copy of the letter has not been found in the TNRCC files. A new letter will be issued upon receipt of the PI-7. This facility does qualify for operation under this exemption.

Rule 116.211 - Standard Exemption List- (IAC)

Facilities listed in the Standard Exemption List which meet all the conditions of the exemption and have meet the total emission criteria for their geographic area are exempt from the permit requirements of the Texas Clean Air Act Rule 382.0518 because such facilities will not make a significant contribution of air contaminants to the atmosphere.

Hercules operates under the standard exemptions listed above.

Rules 116.310-116.314 - Permit Renewals- (NA)

The facility does not have any permits up for renewal at this time.

H. Regulation VII - (Chapter 117) Nitrogen Compounds

Rules 117.201-117.221 - Commercial, Institutional, and Industrial Sources- (NA)

The facility has a boiler rated at 2.5 million Btu and therefore, it is exempt from the requirements of this title.

Rule 117.601 - Gas Fired Steam Generators- (NA)

This facility does not operate a gas fired steam generator and is not subject to this section of rules.

I. Regulation VIII - (Chapter 118) Control of Air Pollution Episodes

The facility is not located in an affected county, therefore, the facility is not required to prepare and maintain an emission reduction plan.

J. Regulation IX - (Chapter 119) Carbon Monoxide

This chapter is not applicable to this facility as it does not contain any of the regulated processes (a catalyst regeneration system, an iron cupola, or a blast furnace).

K. Regulation X - (Chapter 120) Hazardous/Solid Waste Facilities

This facility is not a hazardous or solid waste management facility and therefore, is exempt from the requirements of this regulation.

L. Regulation XI - (Chapter 121) Municipal Solid Waste Facilities

This chapter was repealed effective December 16, 1996.

M. Regulation XII - (Chapter 122) Federal Operating Permits

This facility will not have to apply for a federal operating permit because it is not a major source of air pollutants and does not fit in any of the designated categories.

IV. Federal Regulation Review and Compliance Status

The facility is not subject to any Nation Emission Standards for Hazardous Air Pollutants (NESHAP) nor New Source Performance Standards (NSPS) regulations.

V. Board and/or Court Orders

There are no Agreed or Court Orders on record against this facility.

VI. Permit Review

See Chapter 116 in Section III for a discussion of permits.

VII. Control Equipment

As discussed, Hercules will be installing a Thermal Oxidizer to control the VOC emissions from barge degassing and cleaning to achieve compliance with Regulation V. At the present time these emissions are uncontrolled.
Control equipment has been installed on the tank farm area despite the fact that it is not required by regulation. Mr. Ballinger stated that most of the time the tanks are vented to a dual carbon canister system, however there are times when only one canister is connected. Monitoring of carbon system is conducted approximately every six months to check for breakthrough. A Draeger color metric tube is used for the monitoring. Mr. Ballinger stated the canisters have needed replacing about every two years.

VIII. Sampling and Monitoring

The monitoring of the carbon canister system is discussed in Section VII above.
Hercules conducted particulate sampling in 1991 to help them determine total particulate emissions from the property. A summary of that sampling is located in Attachment D. Hercules determined total particulate emissions at that time were approximately 15.41 tpy.

IX. Upset/Maintenance Reports

This office has not received upset/maintenance reports from the facility since the last SIP inspection.

X. Production

This facility is not producing a commodity and therefore, does not have production rates, however the following information was obtained:

In 1996 approximately 52 tons of Black Beauty abrasive blasting grit was used.
In 1996 the following materials were removed from barges and sold as product according to the bills of lading in Attachment G:

n-butanol	3500 gallons
gasoline blend	6600 gallons
trichloroethylene	618 gallons
perchloroethylene	1500 gallons
styrene monomer	1514 gallons

Hercules could not approximate the number of gallons of paint and thinner used in an average year because the customer supplies the paint and thinner and their usage records did not begin until mid 1996 following an TNRCC inspection. In the month of October 1996 approximately 30 gallons of paint and

thinner were used.

XI. Emission Estimates

The emissions emitted from this facility are shown in the Emission Inventory summary found in Attachment C.

XII. Toxics

This facility is not subject to SARA Title III reporting requirements, however Attachment H contains a list of materials likely to be in the barges cleaned and degassed at Hercules.

XIII. Compliance/Enforcement Status

As a result of this inspection Hercules Marine Services has been found to be out of compliance with Chapter 115, Rule 115.421 as discussed in Section III. This violation can be resolved with no formal enforcement action provided Hercules ceases using the non-compliant coatings. There are no pending enforcement actions or agreed orders at this time.

XIV. Source Management Checklist

See Attachment A.

XV. Map of Facility Location.

See Attachment I.

Rebecca E. Ohler
EQS V
Region 12

cc: Mr. Larry Ballinger, P.O. Drawer O, Freeport, Texas 77541

LIST OF ATTACHMENTS

ATTACHMENT A SOURCE MANAGEMENT INFORMATION

ATTACHMENT B PROCESS DESCRIPTION

ATTACHMENT C EMISSIONS INVENTORY SUMMARY

ATTACHMENT D PARTICULATE SAMPLING SUMMARY

ATTACHMENT E STORAGE TANK SUMMARY

ATTACHMENT F COATINGS USAGE LOGS

ATTACHMENT G BILLS OF LADING FOR VOCS REMOVED FROM BARGES

ATTACHMENT H TOXICS

ATTACHMENT I MAP OF FACILITY LOCATION

ATTACHMENT J BARGE CLEANING TICKETS

ATTACHMENT K SANDBLASTING RECORDS

LIST OF ATTACHMENTS

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ATTACHMENT A

SOURCE MANAGEMENT INFORMATION

ACCOUNT NUMBER BL-0118-V **COUNTY** Brazoria **DATE** 12/6/96

COMPANY Hercules Marine Services Corporation

LOCATION 906 Marlin

MAILING ADDRESS Post Office Drawer O

CITY Freeport **STATE** Texas **ZIP** 77541

PARENT CORPORATION Hercules Offshore Corporation

CORPORATION ADDRESS 11011 Richmond, Suite 500

CITY Houston **STATE** Texas **ZIP** 77042

CORPORATE CEO Tom Hord **TITLE** Vice President

PLANT MANAGER Larry Ballinger **TITLE** Co-Manager

ENVIRONMENTAL CONTACT Jimmy Jackson **TITLE** Co-Manager

TELEPHONE NUMBERS: PLANT 409 233-6371 **HQ** 713 789-7983

PRINCIPAL BUSINESS Barge Cleaning and Repair

ATTACHMENT B

BARGE STRIPPING PROCEDURES ONLY

The PERSON IN CHARGE is responsible for directing the product of whatever barge has docked for the purpose of stripping product. When stripping operations begin, the PERSON IN CHARGE conducts operations as described in the following manner:

When transfer operations are to occur, PERSON IN CHARGE initially assures that the barge to be stripped is secure to our dock. The ground cables are connected, a D.O.I. sheet is filled out. PERSON IN CHARGE must make the decision to either strip overhead through the cargo header using 12 ft long - 2" aluminum pipe with a brass kamlock connector or hook into barge stripping system usually by kamlock connectors. All stripping procedures are done by suction with vacuum pump. Hoses are connected to our vacuum pump with kamlock connectors.

All stripping is done in a safe and responsible manner. If weather conditions worsen, all stripping is stopped and will not proceed until conditions improve. After stripping is completed all hoses are capped off and cleaned and stored on dock.

Once stripping completed, barge is secured to our dock with a minimum of three -2" lines.

HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

BARGE CLEANING PROCEDURE

(COLD WATER WASH)

- Secure the barge to be cleaned at the gas free dock and set gangway.
- Obtain work order and the name of the last product the barge contained.
- Hold safety meeting and go over the chemical data sheet and cleaning procedure to be used.
- Inspect the barge for the location of cargo piping, deepwell, pump, check valve, stripping poles etc. and determine if ballasting is required. (Tilt cargo tanks for cleaning).
- Open cargo tanks and check for product using approved respirators.
- Using the approved respirator, set up venture air mover down wind over the butterworth hatch opening to pull the product fumes back in to the cargo tank and away from the hatch opening to be used to strip product through. Set up stripping pump and/or vacuum and remove all free product from the cargo tanks and transfer it to yard storage tanks for disposal.
- The product is removed from the cargo piping and associated equipment by draining it into the cargo tanks and using the stripping pipes built into the piping system to pump it or vacuum it out. Additional product is removed by using air pressure to blow down and into the cargo tanks.
- Using the barge deck header a high pressure water hose is attached to the manifold and the piping system is washed down and into the barge tanks. After washing is complete air pressure is used to blow all the free water from the system down and into the cargo tanks.
- Using approved respirators, add additional air movers and ventilate until tests show the tanks are gas free for entry with respirators to hand hose (hand held fire nozzle) wash the interior of the cargo tanks. A confined space entry permit must be filled out and approved by the entry supervisor. The wash water is pumped to shore storage tanks for disposal using portable air pump and/or vacuum.
- If the job dictates, the cargo tanks are dried using the venture air movers.
- Replace the check valve gasket with new gasket then tighten bolt evenly around flange.
- Air test cargo line to 40 psi using soap.
- Fill out <u>final check list</u> before releasing barge.
- All testing is done using the MSA EXPLOSIMETER-OXYGEN METER, DRAGER TUBES AND GAS TECK DETECTOR SYSTEMS.
- A marine chemist is called to certify the barges safe for hotwork and entry of mechanical workers after cleaning and gas freeing is complete.

ATTACHMENT C

Texas Natural Resource Conservation Commission

Office of Air Quality
Technical Services
(512) 239-1532

EMISSIONS/INSPECTION FEE FORM
Fiscal Year 1996
(9/1/95 - 8/31/96)

ARN: _____ DATE: _____
AMT: _____ CHK.NO. _____
AGENCY USE ONLY

Company Account Information

** PLEASE NOTIFY TNRCC IMMEDIATELY IF THIS ACCOUNT HAS BEEN SOLD.

HERCULES OFFSHORE FACILITY
906 MARLIN
FREEPORT, TX 77541

Account No.: BL0118V
Site Name: BARGE CLEANING FACILITY
County: BRAZORIA
SIC Code: 4491 Fee Due By: 11/15/95

(PLEASE INDICATE ANY CHANGES ABOVE)

Company Contact:
Larry Ballinger
(Please Print Name)

(409) 233-[illegible]71
(Phone)

Federal ID No. 76-0415601

Texas Charter No. _____

Facility Sold? **Yes___ No_
** Attach New Name, Address, & Telephone Number

List below the Current Permit Allowables and/or Actual Emissions to be based on Calendar Year 1994.

Regulated Pollutants (Only add others that cannot be categorized as one of these)	(1) Sum of Permitted Allowables used (tons per year) (See Instructions)	(2) Sum of Actual Emissions Used (tpy) from Calendar Year 1994 (See Instructions)	Sum of columns (1 & 2) to yield total for each pollutant. (Not To Exceed 4,000 Tons Per Regulated Pollutant.)
VOLATILE ORGANIC COMPOUNDS	3	N/A	3
NITROGEN OXIDES	2	N/A	2
TOTAL SUSPENDED PARTICULATE	1	N/A	1
SULFUR DIOXIDE	13	N/A	13
CARBON MONOXIDE	1	N/A	1
		Total (TPY) (Rounded Up)	20

(PLEASE ATTACH ADDITIONAL PAGES AS NEEDED)

(A) Inspection Fee: (Amount from SIC Fee Table, IF APPLICABLE). . . . $ -0-

(B) Emissions Fee: Total T/Y X $26.00 ($26 minimum, IF APPLICABLE). $ 520.00

(C) Pay the GREATER (A or B) and enter here: . . . . . $ 520.00

Comments/Additional Information:

RETURN COMPLETED FORM & REMITTANCE TO:
(SEE ADDRESSES ON BACK OF FORM)

FEE-96
(7-25-95)

Texas Natural Resource Conservation Commission

Office of Air Quality
Technical Services
(512) 239-1532

EMISSIONS/INSPECTION FEE FORM
Fiscal Year 1995
(9/1/94 - 8/31/95)

ARN: _____ DATE: _____
AMT: _____ CHK.NO. _____
AGENCY USE ONLY

Company Account Information

HERCULES OFFSHORE FACILITY
906 MARLIN
FREEPORT, TX 77541

TACB Account No.: BL0118V
Site Name: BARGE CLEANING FACILITY
County: BRAZORIA
SIC Code: 4491 Fee Due By: 11/15/94

Company Contact:
Wayne Boudreaux
(Please Print Name)
(318) 824-7671
(Phone)

Facility Sold? **Yes___ No X

** Attach New Name, Address, & Telephone Number

(PLEASE INDICATE ANY CHANGES ABOVE)

List below the Current Permit Allowables and/or Calendar Year 1993 Actual Emissions used in determining the Emissions Fee.

Regulated Pollutants (Add Others As Needed)	(1) Current Permit Allowables In Tons Per Year (TPY)	(2) Calendar Year 1993 Actual Emissions (TPY). Emissions Inventory and Measured Data Required if Permitted.	Sum of columns (1 & 2) to yield total for each pollutant. (Not To Exceed 4,000 Tons Per Regulated Pollutant.)
VOLATILE ORGANIC COMPOUNDS	3	N/A	3
NITROGEN OXIDES	2	N/A	2
TOTAL SUSPENDED PARTICULATE	1	N/A	1
SULFUR DIOXIDE	13	N/A	13
CARBON MONOXIDE	1	N/A	1
(PLEASE ATTACH ADDITIONAL PAGES AS NEEDED)		Total (TPY) (Rounded Up)	20

[A] Inspection Fee: (Amount from SIC Fee Table, IF APPLICABLE). . . . $ 4500.00

[B] Emissions Fee: Total T/Y X $26.00 ($26 minimum, IF APPLICABLE). $ 500.00

[C] Pay the GREATER (A or B) and enter here: . . . . . $ 4500.00

Comments/Additional Information:
Facility operates under Special Exemption X-3561. VOC emissions are less than 3 tons/yr. An emissions inventory has never been required.

RETURN COMPLETED FORM & REMITTANCE TO:
(SEE ADDRESSES ON BACK OF FORM)

FEE-95
(7-20-94)

ATTACHMENT D

EFEH & ASSOCIATES

Summary

Particulates were measured in air samples obtained from the Hercules Offshore Company, Inc., P. O. Drawer O; Freeport, Texas 77541. Samples were obtained using a particulate sample train consisting of a cyclone trap for large particulates and an 0.8 micron porosity cassette for fine particles, using procedures and equipment as described in the applicable section for particulate emission in the TACB Sampling Procedure Manual. Particulates were quantitated gravimetrically. Weather conditions were obtained from the DOW Chemical Co., Freeport, Texas, Weather Service. Samples were obtained from the Hercules Offshore Co., Inc., facility from March 15 through 19, 1991. No samples were obtained during periods of intermittent rain. The study initiation was delayed by a West Texas dust storm on March 13, 1991, and rain March 14, 1991. The Hercules facility was at full operation basis during the sampling period. Particulate emissions were compared to TACB Permit Application Regulations and/or Maximum Allowable Emissions (TPY). Based on a three meter atmospheric overlay at 10 mph prevailing wind, an estimate of 15.41 tons/year particulate emission is obtained.

Procedure

The equipment, procedures, and analysis methods utilized were those described in the section for particulate testing in the TACB Sampling Procedures Manual. The sampling train consisted of a cyclone, filter, flowmeter and a rotary vane vacuum pump. The entire assembly was placed in standard rural mail boxes in which a vertical 1 1/2 " opening was drilled for the cyclone intake. No samples were collected during periods of intermittent rainfall.

Prior to field useage, filters were weighed and the weight recorded, with the cassette marked. The systems were calibrated for air flow and pressure drop. As previously stated, rotary vane battery pumps were used. Before testing and upon conclusion of the test period, the system was checked for calibration and, due to the relatively small quantity of particulates, did not vary outside the ±5% flow volume or delta P established.

EFEH & ASSOCIATES

Results

The results of the total particulates at each of the sa locations is given. The consistency of higher numbers locations 1 & 2 and sometimes 7 & 8 is probably due to vehic traffic maintaining a low level from movement on the sand shell roads within and bordering the facility. Location 3, 4 were beside the barge ship and probably reflected true va from sand-blast operations. Calculations based on air move of 10 mph, estimated 15.41 tons particulates per year. included the aforementioned particulates from vehicular roa movement. A logarithmic decreasing quantitation would expected if decreasing wind velocities is taken consideration.

ATTACHMENT E

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

December 17, 1996

Becky Ohler
TNRCC

No. 11 Tank	10,000 Gallons	
No. 16 Tank	5,000 Gallons	
No. 13 Tank	6,000 Gallons	
No. 12 Tank	3,000 Gallons	
No. 19 Tank	3,000 Gallons	
No. 20 Tank	4,500 Gallons	800 Gallons Ethylene Glycol
No. 14 Tank	6,000 Gallons	Slop Oil 3,200 Gallons
No. 17 Tank	4,000 Gallons	
No. 18 Tank	3,000 Gallons	Normal Butanol 2,000 Gallons
No. 10 Tank	3,400 Gallons	Anolon 600 Gallons
No. 21 Tank	20,000 Gallons	Caustic Wash Water 4,000 Gall

Larry Ballinger
Manager
Hercules Marine Services

TABLE 1
HERCULES OFFSHORE CORPORATION
STORAGE TANK INVENTORY
FREEPORT, TEXAS

TANK NO.	CAPACITY (gallons)	CONTENTS
1	73,500	Wash Water
2	73,500	Wash Water
9	28,000	Wash Water
10	3,400	Xylene/Cyclohexane
11	10,000	Caustic Wash Water
12	3,000	Propylene Glycol
13	6,000	Slop Oil
14	6,000	Caustic Wash Water
15	500	Empty
16	5,000	Caustic Wash Water
17	4,000	Ethylene Dichloride
18	3,000	Raffinate
19	3,000	Chloroform
20	4,500	Chloroform
21	20,000	Caustic Wash Water
24	300	Empty
V-303	3,400	Chemical Transfer Truck
V-404	6,000	Chemical Transfer Truck
~~T-2~~	~~7,600~~	~~Vacuum Settling Tank~~
T-3	28,800	Barge Cleaning Sludge
No Number	2,000	Diesel Fuel
~~No Number~~	~~5,000~~	~~Fiberglass-out of service~~

ATTACHMENT F

JOB #

COATING USUAGE LOGS

DATE	TIME	COATING	PRODUCT CODE	LB VOC/GAL	GAL USED	TOTAL VOC	VOC/HR.	WIND DIRECTION
10/2/96	3-6	zinc		4.93	3	14.79	4.93	SW
10/3/96	1-2	zinc		4.93	1/2	2.47	2.47	N to NE
10/7/96	1-2	zinc		4.93	1	4.93	4.93	N to NE
10/9/96	3-6	zinc		4.93	3	14.75	4.93	SE
10/17/96	3-6	zinc		4.93	3	14.75	4.93	W
10/18/96	2-3.30	zinc		4.93	1 1/2	7.40	4.94	N
10/21/96	3-6	zinc		4.93	3	14.95	4.93	S
10/22/96	3-6	zinc		4.93	3	14.79	4.93	NNW
10/27/96	5-8	zinc		4.93	3	14.24	4.93	SE
10/28/96	3-6	zinc		4.93	3	14.79	4.93	SE
10/30/96	3-6	zinc		4.93	3	14.79	4.93	SE
10/31/96	2-5	zinc		4.93	3	14.79	4.93	S
11/1/96	9-7	zinc		4.93	3	14.79	4.93	SW to W
11/2/96	8-5	Base Coat		3.5	15	52.50	5.84	N
11/3/96	8-5	" "		3.5	15	52.50	5.84	S to SE
11/4/96	8-5	" "		3.5	10	35.00	3.85	N to NE

ATTACHMENT G

STRAIGHT BILL OF LADING 44-301

WilsonJones. Carbonless Snap-A-Way® Form

Not Negotiable **Straight Bill of Lading** Short Form

Shipper's No. _____

Dupre Transport
(Name of Carrier)

Carrier's No. _____

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the Bill of Lading
at FREEPORT TX 9/3 19 5C From Hercules MAINT

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classification in effect on the date thereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classifications or tariffs if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to Weskem-Hall Inc 2875 Phillipsuey
(Mail or street address of consignee—For purposes of notification or Delivery Address ★)

Destination Port Allen State La. Zip 70767 County _____

★ To be filled in only when shipper desires and governing tariffs provide for delivery thereto

Route 288 N to I 10 East

Delivering Carrier Dupre Transport Car or Vehicle Initials 9411 No. 712

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	*Weight (Subject to Correction)	Class or Rate	Check Column
	N-Butanol 3500 Gallons			
	UN 1120 Class 3 GP	II		

Subject to Section 7 of Conditions, if applicable, this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and other lawful charges.

_____ Signature of Consignor

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ _____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per _____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$ _____

† Shipper's imprint in lieu of stamp; not part of Bill of Lading approved by the Interstate Commerce Commission.

* If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____

† The rate been used for this shipment conforms to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

Hercules Shipper, Per [signature] Agent, Per [signature]

Permanent post-office address of shipper, _____

WilsonJones · Carbonless · Made in U.S.A. · 44-301 Series

STRAIGHT BILL OF LADING 44-301

WilsonJones. Carbonless Snap-A-Way® Form

Straight Bill of Lading Short Form

Shipper's No. 11-11

Carrier's No.

Negotiable

Gulf Coast Petroleum
(Name of Carrier)

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of the Bill of Lading,

at Freeport 2-9 19 56 From Hercules Marine Service

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated below, which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Official, Southern, Western and Illinois Freight Classifications in effect on the date thereof, if this is a rail or rail-water shipment, or (2) in the applicable motor carrier classifications or tariffs if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, including those on the back thereof, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to Tommy Gates

(Mail or street address of consignee—For purposes of notification only)

Destination Houston State Tx Zip ____ County Harris Delivery Address ★ ____

★ To be filled in only when shipper desires and governing tariff provides for delivery

Route Best way

Delivering Carrier Gulf Coast Petroleum Car or Vehicle Initials 1166 No. 276

No. Packages	Kind of Package, Description of Articles, Special Marks, and Exceptions	Weight (Subject to Correction)	Class or Rate	Check Column
	Gas Blend 6600 Gals			
	(N. Butanol 3,000 Gals)			
	(CYCLOHexane 3,600 Gals)			

Subject to Section 7 of Conditions, if this bill of lading is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:

The carrier shall not make delivery of this shipment without payment of freight and other lawful charges.

(Signature of Consignor)

If charges are to be prepaid, write or stamp here, "To be Prepaid."

Received $ ____ to apply in prepayment of the charges on the property described hereon.

Agent or Cashier

Per ____
(The signature here acknowledges only the amount prepaid.)

Charges Advanced:

$ ____

† Shipper's imprint in lieu of stamp; not part of Bill of Lading approved by the Interstate Commerce Commission.

* If the movement moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is carrier's or shipper's weight.

NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding ____ per ____

† The rates based upon this shipment conform to the specifications set forth in the box maker's certificate thereon, and all other requirements of the Consolidated Freight Classification.

Hercules Shipper, Per Larry Ballinger Agent, Per [signature]

Permanent post-office address of shipper ____

WilsonJones

CPC

CPC TRANSPORT, INC.
P.O. Box 4309
Houston, Texas 77210-4309

Dispatch # _____ No. _____
Driver _____ Driver % _____
2. Driver _____ Driver % _____
Date _____ Truck Dist. _____
Truck # _____ Trailer # _____ Loaded Miles _____

Other Ref. # _____ Cust. Ref. # _____
Freight: Collect ☐ Prepaid ☐ COD ☐
Shipper [illegible]
Customer _____
Origin [illegible] State TX
Consignee [illegible]
Cust. Addr. _____
Dest. Houston State TX

COMMODITY	ACCT. CODE	BILLING QUANTITY BBL/GAL	WEIGHT	MILES	HOURS	RATE	AMOUNT
Methanol		618	618 GAL		NO Good		
Pick-Lower Light		1500	1500 GAL				
Non-Flammable							

Accessorial Charges:

Miscellaneous							
Demurrage							
Extra Drop							
Wash Out							
Paper Work Ex.							
Dailey Rental							

TOTAL AMOUNT _____

	LOAD				DISCHARGE			
	REQUESTED	ARRIVED	BEGIN	END	REQUESTED	ARRIVED	BEGIN	END
DATE								
TIME								

REMARKS LOAD

REMARKS DISCHARGE

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, subject to section 7 of the terms and conditions of the applicable bill of lading. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Consignor _____

Consignee _____
Driver _____

CPC

CPC TRANSPORT, INC.
P.O. Box 4309
Houston, Texas 77210-4309

Dispatch # _____ No. _____
Driver Tom Driver % _____
2. Driver _____ Driver % _____
Date 7-14 Truck Dist. _____
Truck # _____ Trailer # _____ Loaded Miles _____

Other Ref. # _____ Cust. Ref. # _____
Freight: Collect ☐ Prepaid ☒ COD ☐
Shipper [illegible]
Customer [illegible]
Origin [illegible] State _____
Consignee [illegible]
Cust. Addr. _____
Dest. Theodore, Tx State _____

COMMODITY	ACCT. CODE	BILLING QUANTITY BBL./GAL.	WEIGHT	MILES	HOURS	RATE	AMOUNT
(4" 3 3/4") (5 1/4") Syrup Water		1,514					
Accessorial Charges:							
Miscellaneous							
Demurrage							
Extra Drop							
Wash Out							
Paper Work Ex.							
Dailey Rental							

TOTAL AMOUNT _____

	LOAD				DISCHARGE			
	REQUESTED	ARRIVED	BEGIN	END	REQUESTED	ARRIVED	BEGIN	END
DATE								
TIME								

REMARKS LOAD

REMARKS DISCHARGE

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled and are in proper condition for transportation according to the applicable regulations of the Department of Transportation, subject to section 7 of the terms and conditions of the applicable bill of lading. If this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

Consignor _____

Consignee _____

Driver _____

ATTACHMENT H

Table III: BARGES LIKELY TO BE DECONTAMINATED BY HERCULES MAY CONTAIN THE FOLLOWING MATERIALS IN THE FUTURE

Lowest volatility (0 - 0.1 psia)---

Material	Vapor Pr 80 F	Material	Vapor Pr 80 F
Ethylene glycol	0.002	2-Ethylhexanol	0.003
Propylene glycol	0.003	Adiponitrile	0.00002
Diethylene glycol	0.0002	Dicyclopentadiene	0.061
Monoethanol amine	0.008	Xylenes	0.045
Diethanol amine	0.00001	Ethylbenzene	0.045
Kerosene	0.030	Cumene	0.021
No.2 Fuel Oil	0.002	Propylene tetramer	0.050
No.4 Fuel Oil	< .002	Mineral spirits	0.084
No.6 fuel Oil	< .002	2-Butoxyethanol	0.019

Mid volatility (0.1 - 0.2 psia)---

Styrene	0.104	Jet-A	0.0172
Toluene	0.173	Methyl styrene	0.0565
n-Butanol	0.153	Resin Oil	< 0.21

Higher volatility (0.2 - 0.65 psia)---

Naphtha (heavy)	0.200	Acetic acid	0.334
Ethanol	0.600	Monene	0.21
Methylethylketone	0.653		

Extreme volatility >0.65 psia---

VM&P Naphtha	0.900	Cyclohexane	2.051
BTX	1.000	Acrylonitrile	2.259
Benzene	1.982	Vinyl acetate	2.392
Dripolene	1.0-2.5	Raffinate	3.600
Pyrolysis gasoline	1.0-2.5	Acetone	4.770
Crude oil	1.0-5.0	MTBE	5.160
JP-4	2.000	Gasoline	5.900

Halogenated products

Chlorobenzene	0.253	1,1,2-Trichloroethylene	1.540
Perchloroethylene	0.392	Ethylene dichloride	1.655
1,1,2-Trichloroethane	0.490	Carbon tetrachloride	2.374
1,2-Dichloropropane	1.089	Chloroform	4.100
1,1,1-Trichloroethane	1.186	Methylene chloride	9.690

Miscellaneous Products

Materials falling into the above groups which are similar chemically, toxicologically or in odor properties to those permitted above.

ATTACHMENT I

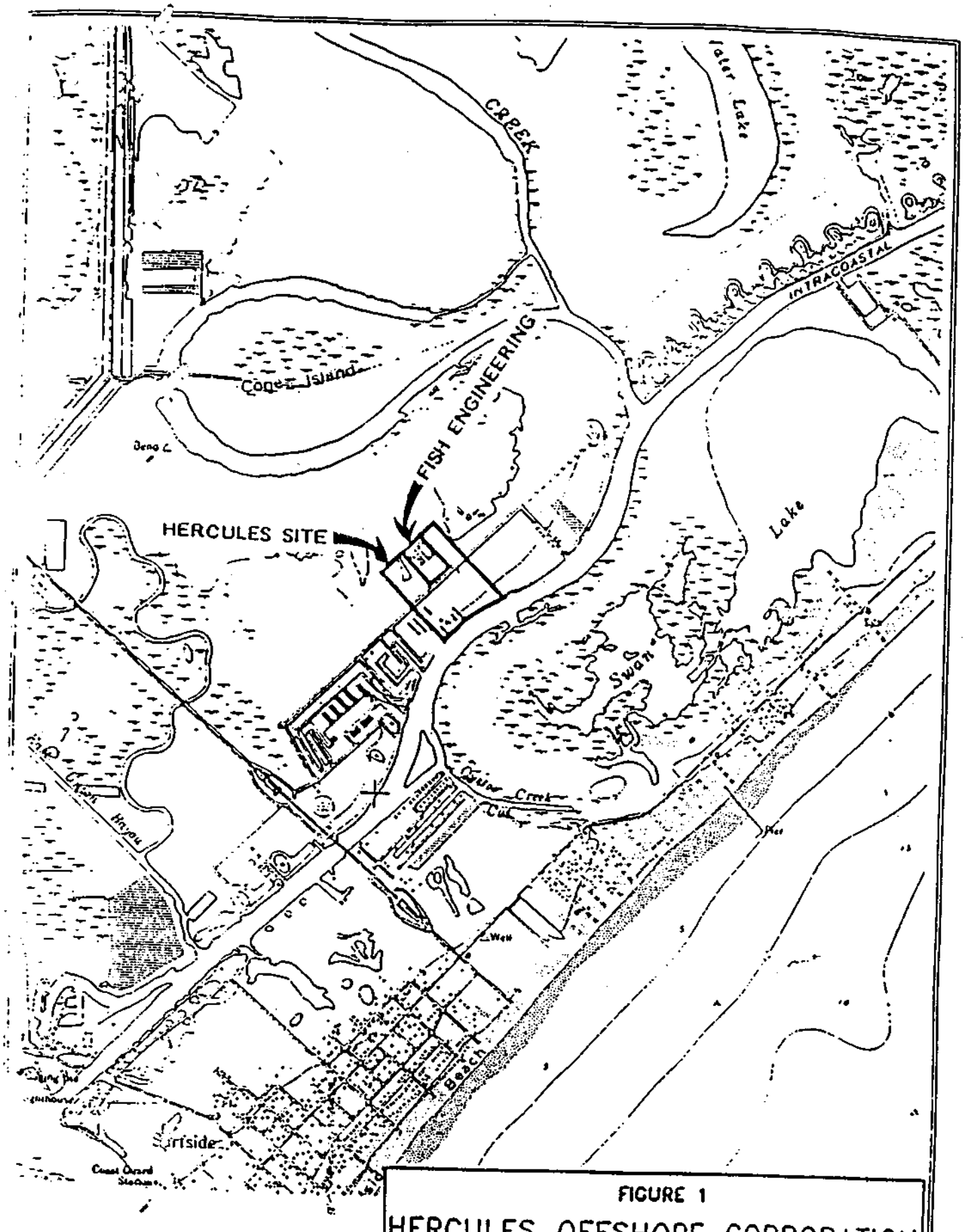

FIGURE 1

HERCULES OFFSHORE CORPORATION
FREEPORT, TEXAS
AREA MAP

ATTACHMENT J

P. O. Drawer O Freeport, TX 77541
(409) 233-0371 (409) 233-0375 fax

Hercules Marine Services Corporation

Fax

To: Becky Oller From: Larry Gallinger

Fax: Pages:

Phone: 713-767-3761 Date: 12-12-96

Re: CC:

☐ Urgent ☐ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:

Attached is info you requested.

Thanks.

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 12-5326

MARINE OPERATIONS FACILITY

DATE

ORDER WRITTEN: 12-5-96 | ETA: 12-6-96 8AM

ARRIVAL: 12-6-96

COMPLETION DATE: 12-6-96

DEPARTURE DATE: 12-6-96

G/V ☐ BARGE ☒

NAME: ETT 115

LOA: | WIDTH:

FOREMAN: CD

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: Freeport

PHONE NUMBER:

WORK AUTHORIZED BY: Robert Peters | G/V AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Hot water wash Strip and blow dry
Barge last Contained Normal Butanol.
2 Barge will need to be inspected.
Barge will be put into Anchor Service.
3 Release to Brown Canal

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: [illegible] Date: 12-5-96

HERCULES OFFSHORE CO.

INVOICE NO. 3668

MARINE REPAIR ORDER No. 11-5305

MARINE OPERATIONS FACILITY

CUSTOMER P.O.

DATE

ORDER WRITTEN: 11-15-96 | ETA:

ARRIVAL: 3:00 P.M.

COMPLETION DATE: 11-15-96

DEPARTURE DATE: 12-15-96 8:00 A.M.

B/V ☐ BARGE ☐

NAME: DC 420

LOA: | BEAM:

FOREMAN: [illegible]

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE:

ON WAYS DATE:

CUSTOMER

NAME: Dixie Carriers

BILLING ADDRESS:

CITY AND STATE: Houston

PHONE NUMBER:

WORK AUTHORIZED BY: M. Campbell | B/V ADVISED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Strip Liquids, blow pipelines, clean drip pan

2

3 This barge is in full time caustic service per Dixie Carriers dispatch.

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: [illegible] Date: 11-15-96

ATTACHMENT K

ANNUAL TONAGE USAGE

SANDBLASTING REPORT

DATE	JOB NO.	HRS. BLASTING	NO. OF TONS USED	COMMENTS IE: WIND DIRECTION
10/2/86	Hen.	5	1 Ton	SW
10/3/86	Hen	1	1/10 Ton	N Turn to NEN
10/7/86	Hen	2 1/2	1/5 Ton	N " " "
10/9/86	Hen	5	1 Ton	SE
10/17/86	Hen	5	1 Ton	W
10/18/86	Hen.	3	1/2 Ton	N
10/21/86	Hen	5	1 Ton	S
10/22/86	Hen	5	1 Ton	NNW
10/27	Hen	5	1 Ton	SE.
10/29	Hen	5	1 Ton	S
10/30	Hen	5	1 Ton	SW
10/31	Hen	5	1 Ton	S
11/1	Hen	5	1 Ton	SW to W
11/3	Hen	5	1/2 Ton	N to N.E Stop

SANDBLASTING REPORT

DATE	JOB NO.	HRS. BLASTING	NO. OF TONS USED	COMMENTS IE: WIND DIRECTION
11/19/92	Hm	3	1/2	NNW
11/21/92	Hm	2	1/4	SSW
11/22/92	Hm	2	1/4	SSW
12/3/92	Hm	3	1/2	SSE

ATTACHMENT 8

BL 0118V
CCB

APPLICATION FOR A TNRCC CONSTRUCTION PERMIT

FOR

HERCULES MARINE SERVICES CORPORATION

OF

FREEPORT, TEXAS

Submitted May 3, 1994

Application prepared by
H.M. Walker, Ph.D.
Environmental Consultant

RECEIVED
JUL 16 1996
REGION 12

HERCULESE MARINE CORP

Description of Processes

INTRODUCTION:

Herculese Marine Corp provides services to the barging industry. These services are: Degassing of vessels, cleaning of vessels, and repairing of vessels. The vessels are primarily large barges used in the transportation of liquid materials by the refining and petrochemical industries. These services include the sandblasting and painting of barges as well as mechanical repair and welding. Hercules has a "ways" in conjunction with one of its barge slips which permits it to pull a barge entirely out of the water should it be necessary to do repairs on its bottom or to sandblast and repaint the entire hull.

Barge are typically of 10000 bbl, 20000 bbl or 30000 bbl capacity. They are very large units. A 30000 bbl barge will be about 300' long overall, 54' wide and 14' deep. It will draw about 10' of water when loaded. The 10000 bbl units are 35' wide but are usually 167' long and draw about 6' of water loaded.

BARGE DEGASSING:

As a service organization Hercules is called upon to service all types of non-pressure barges which could have been in almost any type of prior duty. While arriving "empty" they never-the-less typically will contain a few gallons of their prior cargo in the bottom sump and the air within their cargo holds will be heavily contaminated, possibly saturated, with vapors of the same material.

Decontaminating barges first requires removing the residual liquid with a small hand-held pipe probe extended to the sump from the deck through a hatch. An attached suction pump removes this liquid and sends it via a 2" hose to one of 10 product holding tanks. This liquid, which sometimes amounts to as much as 400 gallons, is of value and is held in the tank for later sale.

The following step, degassing, traditionally has been done with air or steam powered eductors inserted into 1 or 2 hatches per compartment. These induce a flow of vapors out of the barge through the inductors to the atmosphere. The barge atmosphere is gradually replaced with fresh air which flows into the barge

through at least one other opening in the compartment roof. Naturally, depending on the prior service of the barge, this procedure oftem involved the emission of considerable quantities of VOCs to the atmosphere. Since the vapor/air mixtures contained in barges are often explosive, barge decontamination is fraught with danger.

The procedure discussed has hither-to-for met with the approval of the TNRCC, EPA and other regulatory bodies because no safe as well as economical alternative stystem has been available. This remains true today and and will still be true on November 15, 1996 when section 115.541 of Chapter 115 (known as revised regulation V) takes effect.

It is Hercules intent to immediately install a system using a propane-fired combustor to destroy degassing vapors containing large concentrations of VOCs. It is Hercules intent to use this system carefully with utmost attention to safety considerations. It is Hercules intention during the next 2 years to learn the limitations of the system and to develop procedures which will permit its routine use in compliance with the attainable provisions of section 115.542. During this learning period Hercules will fully comply with current regulations. Hercules will not attempt to burn explosive mixtures until it becomes completely familiar with the system and satisfied with the safety of the procedure.

Barge degassing is Hercules most significant air emissions source which the current program seeks to remedy. Two lesser problems being addressed are dust from sandblasting and VOC emissions from surface coating operations.

It is Hercules intent to later install a water scrubber on the stack of the combustor so that chlorinated hydrocarbon vapors can be burned. This will be handled in a separate permit amendment application.

SANDBLASTING:

While considerable standard technology exists for dealing with sandblasting dust in most typical indoor situations, treating barges as large as a football field outdoors is another matter. Fortunately in dealing with sandblasting on a large scale outdoors the TNRCC has developed guidelines which Hercules can meet. Hercules intends to conform to these guidelines fully. Hercules will therefore do the following:

1) Erect a fabric or plastic curtain 300' long and 22' high along the west side of its property to be used during sandblasting and painting. This is the side toward some residences more than 500' away. This curtain will significantly reduce the quantity of windborne dust which

ATTACHMENT 9

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

KA-LV RLO

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

November 13, 1996

Mr. Thomas E. Hord
Vice President
Hercules Marine Services Corporation
906 Marlin
Freeport, Texas 77541

Re: Standard Permit No. 34085
Regulation V, Installation of a Combustor
Freeport, Brazoria County
Account ID No. BL-0118-V

Dear Mr. Hord:

This is in response to your Standard Permit Registration, Form PI-1S, concerning the proposed project. We understand that the proposed project involves installing a combustor to control barge degassing and cleaning emissions. The emission point and emission rates represented in your registration are as follows:

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates* lb/hr	TPY
C-1	Combustor Stack	VOC	14.70	4.04
		NO_x	0.34	0.09
		SO_2		<0.01
	<0.01			
		PM	0.17	0.05
		CO	0.19	0.05

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.
(2) Specific point source name. For fugitive sources use area name or fugitive source name.
(3) VOC - volatile organic compounds as defined in General Rule 101.1
NO_x - total oxides of nitrogen
SO_2 - sulfur dioxide
PM - particulate matter
CO - carbon monoxide

Re: Standard Permit No. 34085

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

____ Hrs/day ____ Days/week ____ Weeks/year or 8,760 Hrs/year

After evaluation of the information which you have furnished, we have determined that your proposed project meets the requirements for a standard permit if constructed and operated as described in your registration. This standard permit was authorized by the Commissioners pursuant to 30 TAC Section 115.950 (Regulation V). A copy of the standard permit rule in effect at the time of this registration is enclosed. You must operate in accordance with all requirements of the enclosed standard permit rule.

You are reminded that these facilities must be in compliance with all rules and regulations of the Texas Natural Resource Conservation Commission and of the U.S. Environmental Protection Agency at all times. Also, be advised that §116.615(3) requires that "all changes authorized by standard permit to a facility permitted pursuant to §116.110....shall be administratively incorporated into that facility's permit at such time as the permit is amended or renewed."

Your cooperation in this matter is appreciated. If you have any questions concerning this standard permit, please contact Ms. Kate Hauer of our Office of Air Quality, New Source Review Division at (512) 239-1372.

Sincerely,

for Victoria J. Hahn

Dan Pearson
Executive Director
Texas Natural Resource Conservation Commission

DP/KH/ms

Enclosures

cc: Ms. Karen Atkinson, Air Program Manager, Houston
Mr. Leo D. O'Gorman, M.D., Director, Brazoria County Health Department, Angleton
Mr. Jim Thomas, Air Quality Planning and Assesment Director, Austin

REGULATION V, VI or VII STANDARD PERMIT
TECHNICAL REVIEW

Standard Permit Type: **Reg V** Account No: **BL -0118 -V**
Record No: **47391** Project/Permit No: **34085**
Company: **Hercules Marine Services Corp.**
Contact Name: **Larry Ballinger** Phone: **409 233 6371** Fax **409 233 6375**
Project Type : **Standard Permit** City: **Freeport** County: **Brazoria**
Facility Name: **Barge Cleaning and Degassing**
Engineer: **Kate Hauer**

NOTIFICATION: Copy of PI1-S sent to:
REGION: 12

REVIEW SUMMARY:
Compliance with all § 115.950requirements?:
Yes

FEE
Franchise tax current? Yesx____ No____

MIKIE FILE & PSDB ENTRIES:
MIKIE: YesX No N/A
Copy of cover letter and tech review made for the appropriate permit files? Yes
PSDB: Yes
Permit No.(s) None

PROJECT OVERVIEW:

Hercules Marine Services applied for a Regulation V Standard Permit on 10/30/96. In order to comply with the November 15, 1996 Reg V deadline, Hercules must install a combustor to control emissions. This combustor will control degassing emissions from barges.

Total controlled emissions from all sources affected by this standard permit are estimated as follows:

EPN	Source	Pollutant	lb/hr	TPY
C-1	Combustor	VOC	14.7	4.04
		NOx	0.34	0.09
		SO2	<0.01	<0.01
		PM	0.17	0.05
		CO	0.19	0.05

Kate Hauer 11.12.96 Kimberly Hamelmark 11/12/96
Permit Engineer Date Section Chief/Backup Engineer Date

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION
FORM PI-1S, STANDARD PERMIT REGISTRATION
(Air Quality Standard Permit)

RECEIVED
OCT 12 1995
REGION 12

TNRCC

Please print or type all information. Please contact the CORE Section of the New Source Review Division with any questions at (512) 239-1250 or FAX (512) 239-1300. Written inquiries may be addressed to: Texas Natural Resource Conservation Commission, Office of Air Quality, New Source Review Division (MC-162), P.O. Box 13087, Austin TX 78711-3087. The registrant is encouraged to use an administrative completeness checklist, available on request, to assist in providing the required information.

Forward application only to New Source Review Division (MC-162) P.O. Box 13087, Austin, TX 78711-3087; Forward fees only (if applicable) to Cashier, TNRCC, P.O. Box 13088, Austin, TX 78711-3089.

VERY IMPORTANT!

I. A. In CONFIDENTIAL information part of this registration? [ ]-YES [X]-NO
If YES, is each "confidential" page so marked in big red letters? [ ]-YES [ ]-NO

B. Is this registration in response to, or related in any way to, a Notice of Violation at this location? [ ]-YES [X]-NO
If YES, date of Notice of Violation:_____ and the specific TNRCC rule(s) violated:_____

C. Are the new facilities or changes to existing facilities represented in this registration required to be permitted as a disposal facility under the Taxes Solid Waste Disposal Act? [ ]-YES [X]-NO

RECEIVED
OCT 30 1996
PERMITS PROGRAM

II. REGISTRANT INFORMATION

A. PERMITTEE: Hercules Marine Services Corp.
(Entity legally responsible for permit; i.e., Owner or Operator of the facility)
Permittee's Texas State Comptroller's Tax ID No.:_____
Permittee's Address (Person, Title, Address):_____
Telephone (____) _____ Fax (____) _____
Permittee's Technical Contact (Person, Title, Address): Dr. H.H. Walker, Envir Consultant 3321 E. Bayou Drive Dickinson, TX 77539
Telephone (281) 337-1177 Fax (____) Same — call first

B. OWNER OF FACILITY: Hercules Offshore Corp.
(If different from permittee; include names of proprietor/general partner(s) if applicable)
Owner's Texas State Comptroller's Tax ID No.: 03-0786 36-1
Owner's Address (Person, Title, Address): 11011 Richmond 5500 Houston, TX 77042 Thomas J. Seward II, President

C. PRINCIPAL COMPANY PRODUCT OR BUSINESS: Marine Services
Plant SIC Code:_____

III. PROJECT CLASSIFICATION (Check all applicable blocks):

A. [ ] Regulation V - VOC control project (30 TAC Chapter 115, Section 115.950)
B. [X] Regulation VI - Standard Permit (30 TAC Chapter 116, Section 116.610)
C. [ ] Regulation VII - NOx RACT project (30 TAC Chapter 117, Section 117.550)
D. [ ] List Permit Numbers for all existing related and/or affected air quality permits:

IV. FACILITY PHYSICAL LOCATION:

A. Name of Plant or Site:
B. Street Address: 906 Marlin Freeport, TX 77541
C. Nearest City: Freeport County: Brazoria Site Zip Code: 77541
D. Plant Site TNRCC Air Quality Account Number:_____

V. FACILITY TYPE AND OPERATING SCHEDULE:

A. Name of Facility to be Permitted: Vapor collection and incineration system
B. Facility Type (Check one): [X] Permanent, [ ] Portable.
C. Facility Operating Schedule: (24) Hours/day; (7) Days/week; (52) Weeks/year
(____) Seasonal - explain:_____

10/95

LDW 11/26/96

TNRCC FORM PI-1S, STANDARD PERMIT REGISTRATION (AIR QUALITY)

VI. SUBMIT THE FOLLOWING GENERAL INFORMATION:

A. Submit a current area map containing a true north arrow, the entire plant property, and the location of the property relative to prominent geographical features such as highways, roads, streams, and significant landmarks such as buildings, residences, and schools. All areas within one mile of any plant boundary must appear on this map. *

B. Submit a plot plan of the plant property clearly showing all property lines, affected emission points, buildings, tanks, process vessels, and other process equipment. The plot plan must be scaled, must indicate a true north arrow, must reference a plant bench mark (located by Latitude/Longitude or Universal Transverse Mercator [UTM] coordinates), and must be dated. *

C. Submit the basis of emissions estimates (including fugitive emissions); quantification of all emission increases and decreases associated with the project being registered, information that describes efforts to be taken to minimize any collateral emissions increases that will result from the project, a description of the project and related processes, and a description of any equipment being installed. *

VERY IMPORTANT!

D. Franchise Tax. Submit a copy of a Certificate of Good Standing from the State Comptroller's Office with each registration if the permittee is a corporation. *

E. Permit Fee. If item III.B. is checked above, enclose the fee required by Regulation VI Section 116.614. *

(Items III.A. and III.C. do not require fees.) If fees are required, please forward the fee with Cashier, TNRCC, P.O. Box 13088, Austin, TX 78711-3088.

[ ] Check here if fee is not applicable.

* Previously submitted

RECEIVED OCT 30 1996 PERMITS PROGRAM

VII. GENERAL REQUIREMENTS:
Submit itemized information and/or analysis demonstrating that all applicable general requirements as specified in TNRCC Sections 115.950, 116.610, and 117.550 are met. Each paragraph of the applicable sections must be addressed in this registration. Atmospheric dispersion modeling may be required as part of the air quality impact analysis.

VIII. A COPY OF THIS REGISTRATION and all attachments must be sent by the registrant to (A) the Air Program of the appropriate TNRCC Regional Office, and (B) to any local air pollution control program having jurisdiction. Copies of the registration were sent to:
A. TNRCC Regional Office (city):_____
B. Local Programs: 1._____
2._____
[ ]-NO LOCAL PROGRAMS.

IX. PROFESSIONAL ENGINEER SEAL. Is the estimated capital cost of the project for which registration is made greater than $2 million dollars? [ ]-YES [X]-NO.
If YES, registration must be submitted under seal of a Texas registered Professional Engineer, unless exemption is claimed pursuant to the Texas Engineering Practice Act (TEPA).
[ ] - Exemption from this P.E. seal requirement is claimed pursuant to TEPA Section_____

X. I, Thomas E. Hord, Vice President
(Name - Please print or type) (Title: Owner, Plant Manager, President, Vice President, Environmental Director, etc.)
state that I have knowledge of the facts herein set forth and that the Same are true and correct to the best of my knowledge and belief. I further state that to the best of my knowledge and belief, the project for which registration is made will not in any way violate any provision of the Texas Health & Safety Code (THC), Chapter 382, Texas Clean Air Act, as amended, or any of the rules and regulations of the Texas Natural Resource Conservation Commission adopted under Chapter 382 or any local governmental ordinance or resolution pursuant to the Texas Clean Air Act. I further state that I have read and understand Sectic 382.091, THC, which defines CRIMINAL OFFENSES for certain violations, including intentionally or knowing., making or causing to be made false material statements or representations in this registration, and Section 382.092, THC, pertaining to CRIMINAL PENALTIES.

DATE 10/29/96 SIGNATURE Thomas E. Hord

NOTE - ORIGINAL SIGNATURE *IN INK* IS REQUIRED.

Case:	Hercules
Case Number:	CR-FY97-058
Person Interviewed:	Dr. Harry M. Walker Environmental Consultant
TNRCC Office:	Region 12 - Houston
Location:	3321 E. Bayou Drive Dickinson, TX 77539
Date/Time:	September 24, 1997 / 9:00 am

On September 24, 1997, TNRCC Special Investigator (SI) Brian Lynch interviewed Dr. Harry M. Walker in his office at his residence at the above described location. Lynch advised Walker he was conducting a criminal investigation of Hercules Marine Service Corporation (Hercules) related to vapor control requirements on barge degassing activities. Walker indicated he was willing to talk with Lynch.

Walker advised that he had been hired by Hercules to submit an air permit application for their facility in Freeport in about 1994. He advised he told Hercules representatives what would be required for them to do to be able to obtain the permit. He advised that he submitted a permit application for Hercules. Walker advised Hercules decided they could not obtain the permit. He advised that this occurred about two years before the November 1996 compliance date for the regulations on degassing or cleaning of stationary, marine, and transport vessels. Walker advised that Hercules decided they could continue to operate as they always had without a permit until the November 1996 compliance date. He advised the reason they made this decision was because they were practically out of the barge cleaning business anyway.

Walker advised that initially in about 1994 he dealt with Jessie Camacho who was in charge of field activities at Hercules and he dealt with an office manager named Sylvia (LNU) concerning office matters. He advised that he met once with Tom Horde and Tom Seward in the 1994-1995 time frame. Walker recalled that in the meeting with Horde and Seward he told them in general what was needed to get a system in place to comply with the upcoming vapor control requirements by November 1996. He advised that when he met with these two they were committed to the purchase of a thermal oxidizer as the vapor control device they would use. Walker advised that his understanding was the Hord and Seward were mainly concerned with the Hercules Offshore business.

Walker advised that around the time of the November 1996 compliance date, Hercules came back to him and wanted to finalize the permit which he had initially worked on in 1994. He advised he believed it was Larry Ballinger who contacted him at this time. Walker advised that

he reopened contact with TNRCC and had to resubmit the permit application because so much time had passed since the original submission. He advised that he encountered problems working out technical details on the application with TNRCC Air Permit Engineer Kate Hauer. Walker advised that after he had started back working on the permit application for the thermal oxidizer vapor control system he received a telephone call from Kate Haurer telling him that TNRCC interpretation of the rules did not require a construction permit for the thermal oxidizer vapor control system because it only involved abatement of emmissions. He advised that he then worked on submission of the Standard Permit Application for Hercules. He advised that he had to get Tom Horde to sign the application as an officer of the corporation, but that he did not discuss the permit with Horde. He advised that TNRCC apporval of the Standard Permit allowed Hercules to go forward with the installation of the thermal oxidizer vapor control system.

Walker advised that during this time in late 1996, in had conversations with Larry Ballinger and he went to the Hercules facility. He advised at that time during his discussions with Ballinger he told Ballinger that Hercules could not remove material with vapor pressure greater than 0.5 psia until after the vapor control system was working. Walker advised at that time Ballinger told him he had purchased or was about to purchase the 18 inch pipe needed to hook up the thermal oxidizer. Walker advised he did not think Hercules had faced up to the purchase of a major blower that had to be purchased for the vapor control system. Also, Walker said they had not yet constructed the concrete slab where the thermal oxidizer would be located when he was at Hercules in late 1996. He advised the unit was still sitting on timbers at the facility when he was last there.

Walker advised that in late 1996 he offered to work on any engineering changes that might be needed, but Hercules did not take him up on his offer. He advised that he did not recommend material with a high vapor pressure such as benzene or cyclohexane to be handled by the thermal oxidizer. He advised that air dilution would be required to avoid explosive atmosphere in the system and so it would take several days to degas a barge which had contained such materials.

Walker advised that cyclohexane was important to Hercules all along because they cleaned a lot of barges that had contained this material. He advised the thermal oxidizer system was not good for handling cyclohexane unless one wanted to take about three days to burn it off. He advised it would be slow and would cost fuel. He advised that he submitted a written document to Hercules which listed chemicals they could process in the thermal oxidizer easily and which listed chemicals that would take time to process and be infeasible for them to handle.

Walker said that he has not been in contact with anyone from Hercules for several months. He advised that Hercules always paid their bill but were slow in paying.

Signed: Brian Lynch

Date prepared: September 24, 1997

Case:	Hercules
Case Number:	CR-FY97-058
Person Interviewed:	Robert Peters, BASF Logistics Coordinator Edwin Bergmann, BASF Senior Environmental Engineer L. H. "Bubba" Moore, BASF Logistics Manager
TNRCC Office:	Region 12 - Houston
Location:	BASF 602 Copper Road Freeport, Texas 77541
Date/Time:	September 2, 1997 / 2:30 pm

On September 2, 1997, TNRCC Special Investigator (SI) Brian Lynch interviewed Robert Peters, Edwin Bergmann, and Bubba Moore at their BASF office on Copper Road in Freeport, Brazoria County, Texas. SI Lynch identified himself as a criminal investigator with the TNRCC. Lynch advised Messrs. Peters, Bergmann, and Moore that he was investigating the cleaning of barges from BASF at Hercules Marine Services Corporation (Hercules) that had contained cyclohexane from November 1996 to present and that he would like to ask some questions concerning this matter. The gentlemen indicated that they were willing to answer such questions.

Peters advised that he is usually the contact person for Hercules at BASF. Lynch asked Peters who he would contact at Hercules to notify them that BASF would be sending them a barge to be cleaned. He advised currently it was Jimmy Jackson and previously it had been Larry Ballinger. He advised that since about April 1997, he notified Hercules by facimile of the barge being sent to be cleaned at Hercules and that prior to this he called by telephone to notify of the barge being sent there. Peters advised that Larry Ballinger was the Hercules Manager and that 99% of the time he would notify the Hercules Manager of the barge BASF would be sending to Hercules to be cleaned. Lynch asked Peters if BASF sent barges to Hercules to have cyclohexane cleaned out between the time period of November 1996 to April 1997. He advised that BASF did send such barges to Hercules during this time period. He advised that most of the time during this time period he called Larry Ballinger and told him that BASF was sending a cyclohexane barge to Hercules to be cleaned. Peters said that he is sure Larry Ballinger knew BASF sent cyclohexane barges to Hercules to be cleaned during this time period because he called him and told him so. Lynch asked Peters if he was sure Ballinger knew about Hercules receiving cyclohexane barges after November 1996 and Peters stated "no doubt about it".

Peters advised that BASF provided material safety data sheets (MSDS) for cyclohexane to Hercules. He advised that it is routine for BASF to send cyclohexane barges to Hercules to be cleaned out, but not frequent. He advised that BASF sends about one cyclohexane barge every

two months to Hercules to be cleaned. He advised that during some months more such barges are sent and other months fewer such barges are sent. Peters advised that in November 1996 notification of the barges being sent from BASF to Hercules was mainly verbal.

Lynch asked Peters, Moore, and Bergmann when did they BASF find out of the problem at Hercules with them receiving cyclohexane barges for cleaning when Hercules had no vapor control system in place. Bubba Moore advised that when the two girls from TNRCC came out and asked to look at barge cleaning records from February 1997 to present. Moore advised at first they said it was a routine visit and then Moore advised during the second meeting the TNRCC inspectors said they needed to make copies of the records. Next, Peters and Moore discussed the question and then said that the TNRCC girls did not tell them of the problem. Then Peters advised Larry Ballinger called and told him that Hercules could no longer clean cyclohexane barges. Peters advised that he received this call after the second visit from the TNRCC on that same day.

Peters advised that until Ballinger called after TNRCC had been to BASF twice, he did not know of a problem at Hercules. Peters advised that Ballinger told him that Hercules had been cleaning cyclohexane barges and they were not supposed to be doing so.

Lynch asked did BASF have a cyclohexane barge at Hercules which was sent away from Hercules because they would not clean it because the TNRCC had discovered this activity had been occurring. Peters advised that he may have had a cyclohexane barge at Hercules to be deballasted.

Lynch asked if BASF had conducted an environmental audit at Hercules. Moore advised that BASF just completed such an audit, but that prior to this one had not been done to his knowledge. Peters and Bergmann agreed with Moore.

Peters advised that Jimmy Jackson recently told him that Hercules now has a thermal oxidizer operational to control vapors from cleaning barges at Hercules. Lynch asked Peters if he had ever heard of the Hercules thermal oxidizer prior to Jackson's recent call. Peters advised he had never heard about this before and never discussed it with Larry Ballinger.

Lynch asked if BASF sent barges to any other barge cleaning facilities. Peters advised that they started using Texas Barge and Boat (TBB) since TNRCC came in. Peters advised that he did not know if Mark Hanna sent any BASF barges to TBB in 1996. Lynch asked what Hanna did at BASF. Peters advised that Hanna is now the Customer Technical Services Representative for BASF. He advised that previously Hanna had his job as Logistics Coordinator. Lynch asked Peters how he learned about TBB. He advised that Bob Ingman of BASF Purchasing Department knew about TBB.

Lynch asked how did BASF control cyclohexane emissions when unloading it at BASF. Bergmann advised that BASF had a closed system which prevented cyclohexane emissions at BASF.

Lynch asked if Peters would provide the following documents:

1. BASF monthly schedule of cyclohexane shipments picked up by BASF in barges.
2. BASF work requests faxed to Hercules describing the barge to be cleaned.
3. MSDS for cyclohexane.
4. Peters Day Planner notes on contact with Larry Ballinger.
5. Barge cleaning procedures.

Peters advised that he would provide these documents and that Lynch could contact him later in the week to obtain these documents.

Moore advised that he would contact ITS Caleb Brett and notify the manager Bobby Fuller that BASF authorized Caleb Brett to allow Lynch to review and copy documents related to cyclohexane barges cleaned by Hercules for BASF which Caleb Brett inspected. Moore advised that BASF would cooperate with Lynch on the investigation.

Signed: Brian Lynch

Date prepared: September 12, 1997

Case:	Hercules
Case Number:	CR-FY97-058
Person Interviewed:	Robert Peters, BASF Logistics Coordinator Bobby L. Atkins, BASF Environmental Team Leader L. H. "Bubba" Moore, BASF Logistics Manager
TNRCC Office:	Region 12 - Houston
Location:	BASF 602 Copper Road Freeport, Texas 77541
Date/Time:	September 9, 1997 / 9:00 am

On September 9, 1997, TNRCC Special Investigator (SI) Brian Lynch interviewed Robert Peters, Bobby Atkins, and Bubba Moore at their BASF office on Copper Road in Freeport, Brazoria County, Texas. SI Lynch identified himself to Atkins as a criminal investigator with the TNRCC.

Lynch contacted Peters on September 8, 1997, and asked if he had retrieved the records which he had previously agreed to provide to Lynch. Peters advised on September 8, 1997, that he had pulled these records and they were available. Lynch arrived and asked to see Peters. The receptionist advised Lynch he was to see Moore. Lynch met Moore, Atkins and Peters in a conference room at the BASF office.

Lynch asked if BASF considered the act of Hercules cleaning cyclohexane barges without required emission controls serious. Atkins advised that BASF did consider this a serious act that should not have been done. He advised that he believed Hercules was a big corporation and he found it hard to believe that the company knew what was going on. He advised that to him this looked like an individual at the lower level that knew what was happening.

Moore advised that Hercules was no longer cleaning any barges for BASF. He advised that after a citizen sent a letter to the BASF General Manger Ravi Singhani with the TNRCC notice of violation letter sent to Hercules attached, BASF decided not to send any more barges there to be cleaned until they determined if it would be done in compliance with environmental rules and regulations. He advised that BASF did let Hercules continue cleaning other than cyclohexane barges after the discovery of the problem with this activity, but that this had been discontinued.

Lynch asked to review the previously requested records. Moore advised that Mark Hanna had all the 1996 and 1997 invoices and back up documents from Hercules to BASF concerning barges cleaned by Hercules for BASF. Peters left to retrieve the records. Lynch asked Moore why

Hanna had these documents at his desk. Moore advised that Kriselle Nielsen, Hanna's boss, had instructed Hanna to do a cost comparison between barge cleaning and mechanical repair at Hercules versus Texas Barge and Boat. Lynch asked if Hanna was in his office and Moore advised that Hanna was attending a staff meeting with Nielsen on Moore's behalf.

Peters returned with the Hercules documents. Peters advised that BASF was no longer sending barges to Hercules. Lynch asked Peters if he was sure BASF was no longer sending barges to Hercules. Peters advised that Hercules had done some deballasting for BASF. Lynch asked Peters what Hercules did with the ballast water they removed from BASF barges. He advised that they placed it into tanks and reused it.

Peters advised that about 98% of the BASF barge traffic is in cyclohexane use. Peters advised that BASF hires Caleb Brett to inspects all BASF barges cleaned or repaired at Hercules. He advised that Caleb Brett does not inspect BASF that are only schedules for deballasting at Hercules.

Lynch reviewed Hercules invoices with Peters and the following barges were determined to be BASF barges from which Hercules stripped, or removed, and cleaned cyclohexane **(See attachment 1 - Hercules Documents)**:

	Cleaning Date	Barge Number	Hercules		BASF Approval Signature
			Job#	Invoice#	
1.	11-30-96	ETT110	5318	3683	Roberts Peters
2.	12-6-96	ETT112	5327	3692	none
3.	12-17-96	ETT115	5334	3699	none
4.	1-10-97	ETT112	5359	3730	none
5.	2-9-97	ETT110	5396	3762	none
6.	2-18-97	ETT115	5402	3768	none
7.	2-22-97	ETT113	5405	3771	none
8.	3-6-97	ETT114 ETT112	5430	3796	none
9.	4-21-97	ETT112	5488	3853	none
10.	4-23-97	ETT113	5494	3859	none
11.	4-27-97	ETT112	5497		none

Lynch reviewed the BASF Cyclohexane Schedule provided by Peters **(See Attachment 2- BASF Cyclohexane Schedule)**. This document shows the dates the barges carried cyclohexane and the date unloaded as noted beow:

	Barge Number	Date unloaded
1.	ETT110	11-22-96
2.	ETT112	12-5-96
3.	ETT115	12-14-96
4.	ETT112	1-9-97
5.	ETT110	2-9-97
6.	ETT115	2-16-97
7.	ETT113	2-21-97
8.	ETT112	3-5-97
9.	ETT114	3-4-97
10.	ETT112	4-19-97
11.	ETT113	4-22-97
12.	ETT112	4-25-97
13.	ETT113	5-3-97

Lynch asked for and Peters provided a copy of a material safety data sheet (MSDS) that would have been provided to Hercules **(See attachment 3 - cyclohexane MSDS)**.

Lynch asked Peters for copies of any work requests he faxed to Hercules concerning cyclohexane barges to be cleaned for BASF. Peters provided documents entitled BASF Barge Schedules For Hercules which show the following **(See attachment 4 - BASF Work Requests)**:

Date	Barge Number	Material Last Contained on Barge	Job Request
1-10-97	ETT112	Cyclohexane	Strip and blow dry
3-6-97	ETT114	Not indicated	Repairs
	ETT112	Not indicated	Strip and blow dry

Lynch asked Peters for copies of the BASF Barge Schedule. Peters provided copies of the documents which show the following **(See attachment 5 - BASF Barge Schedule)**:

Date	Barge Number	Material	Activity
11-27-96	ETT110	Empty (Cyclohexane)	Hold
12-5-96	ETT112	Empty(Cyclohexane)	Take to Hercules for deballasting

12-6-96	ETT112	Empty	At Hercules being repaired
12-16-96	ETT112	Empty	Being repaired
12-16-96	ETT115	Empty (Cyclohexane)	Take to Hercules to be cleaned
1-10-97	ETT112	Empty	At Hercules being cleaned
2-7-97	ETT110	Loaded (Citgo)	Enroute to Freeport, discharge Saturday
2-18-97	ETT115	Empty	En route to Hercules Strip and blow dry
2-21-97	ETT113	Discharging (Phillips)	Take barge to Hercules preparation for USCG COI Monday
2-24-97	ETT113	Empty(Cyclohexane)	At Hercules USCG certificate of inspection
3-5-97	ETT114	Empty(Cyclohexane)	Will take to Hercules for repairs Thursday
	ETT112	Loaded (Citgo)	After discharge take to Hercules to be cleaned
3-6-97	ETT114	Empty (Cyclohexane)	At Hercules minor repairs
	ETT112	Empty (Cyclohexane)	Being stripped and blown dry
4-21-97	ETT112	Empty(Cyclohexane)	At Hercules being repaired
4-23-97	ETT113	Empty(Cyclohexane)	Take to Hercules for strip and blow dry
4-28-97	ETT112	Empty(Cyclohexane)	At Hercules being repaired
4-5-97	ETT113	Empty	At Hercules being cleaned
5-6-97	ETT113	Empty (Cyclohexane)	At Texas Barge being cleaned

Peters provided a document entitled "Barge Cleaning" which shows the prescribed methods of cleaning for barges depending on the last cargo they carried **(See attachment 6)**. The document shows that the BASF barge cleaning procedure to remove cyclohexane was "strip, blow, and dry".

Signed: Brian Lynch

Date prepared: September 12, 1997

September 9, 1997 BASF Interview
Attachment Summary Sheet

Attachment 1	Hercules Documents
Attachment 2	BASF Cyclohexane Schedule
Attachment 3	Cyclohexane MSDS
Attachment 4	BASF Work Requests
Attachment 5	BASF Barge Schedule
Attachment 6	BASF Barge Cleaning Procedures

ATTACHMENT 1

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. 3683
DATE Nov 30, 1996
Job No. 5318
Location Freeport, TX

TO:

BASF
607 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms Net 30

FOR:

Service to the ETT 110 as follows:

Strip and blow dry the cargo line and tanks.
Ballast bow rake and wing tanks 4 and 5.

LABOR:	Leadman	6.5 hr.	@	49.50 (OT)	321.75
	Journeyman	26 hr.	@	45.75 (OT)	1,189.50
WATER:	69,000 Gallons		@	5.00/1,000 Gallons	345.00
MATERIAL:		29.60	Plus 25%		103.60
EQUIPMENT:	Compressor	6.5 hr.	@	48.00	312.00
	Air Movers	24 hr.	@	5.00	120.00
	Vacuum	3 hr.	@	30.00	90.00
	Hand Hose	3 hr.	@	12.00	36.00
				TOTAL AMOUNT DUE	**$2,517.85**

HEXANE FREIGHT - 60140-485112-19704

APPROVAL SIGNATURE

DAILY TIME LOG

DATE	11-30-96	COSTUMER	B.A.S.F.
JOB NO.	11-5318	BARGE	ETT-110

START TIME 10:00 AM STOP TIME 4:30

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Rivera	6½				
Quintero	6½				
Olivarez	6½				
Pettit	6½				
Lovelace	6½				

MATERIAL LIST:
Used (2) Flashlight Batteries, (2) White Coveralls, (3) Pair of Respirator Filters. 1 8" Basket for Pump Trap.

JOB DESCRIPTION:
Normal Ballast. Bow Rake and W/H's #4 & 5 Strip & Blow Dry.

325 hrs

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-0371
Fax. (409) 233-0375

Date: 11-30-86 Job No: 5318 Barge/M/V: Ettello

EQUIPMENT	HOURS
Compressor	6½ ✓
Air Movers	24 ✓
Vacuum	3 ✓
Steam Rig	
Hand Hose	
Roller	3 ✓
2" Sump Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	3
Gloves	
Flashlights	
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

✓

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

X + w/o

INVOICE NO. : 3692
DATE : Dec. 5, 1996
Job No. : 12-5327
Location : Freeport, TX

TO:

BASF
607 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to ETT 112 as follows:

Deballast and Release to Brown Water 4.
Strip and blow dry cargo line and cargo tanks.
Repair fractures. Welding, gauging, fitting. Welding broken welds in wing tanks, and haul out of barge. Cut and weld plate.
Remove barge from cradle. Shift to dock for ballast water.

LABOR:	Journeyman	385 hrs.	@	32.50 (ST)	12,512.50
	Journeyman	199 hrs.	@	45.75 (OT)	9,127.12
WATER:		79,220 Gallons	@	5.00/1,000 Gallons	396.10
STOCK:		$1,500	Plus 25%	375.00	1,875.00
CHEMIST:		$300.00	Plus 25%	75.00	375.00
EQUIPMENT:	Compressor	8 hrs.	@	48.00	384.00
	Air Movers	24 hrs.	@	5.00	120.00
	Vacuum	4 hrs.	@	30.00	120.00
	Hand Hose	4 hrs.	@	12.00	48.00
	Cherry Picker	2 hrs.	@	70.00	140.00
	3" Gas Pump	10 hrs.	@	18.00	180.00
	2" Strip Pump	16 hrs.	@	15.00	240.00
	Haul Out	1 hr.	@	1,100.00	1,100.00
				TOTAL AMOUNT DUE	**$26,617.72**

60140 - 44050

WO# 6601411

APPROVAL SIGNATURE _____

PHONE: (409) 233-6371

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-0371
Fax. (409) 233-0376

Date: 12-6-96 Job No: 5327 Barge/M/V: ETTE 112

EQUIPMENT	HOURS
Compressor	8
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	24
Boiler	
2" Strip Pump	16 ~~10~~
3" Diesel Pump	10 ~~10~~
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	1
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	
Batteries	2
Respirator Filters	3
Gloves	2
Flashlights	
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

DAILY TIME LOG

DATE	12-6-96	CUSTOMER	BASE
JOB NO.	12-5327	BARGE	Ett-112

START TIME 7:00AM STOP TIME 5:30PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
CASAS	-				
J. Enrique	8				
Perez	8				
Rivera	4				
SAM	4				
CLAUDIO	4				
Quintero	4				

MATERIAL LIST:

JOB DESCRIPTION:

STRIP BLOW DRAIN ad. DEBALLAST WING tank NO-4 ad. BOW RAKE ad. STERN RAKE ad. GAS FREE to WELD ad. BARGE

DAILY TIME LOG

DATE:	Dec 6, 96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 17:30 STOP TIME 20:00

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. PeHit	2½	2½			
D. Guel	2½	2½			
D. Hernander	2½	2½			
Jose Rodriguez	2½	2½			
R. Perez	2½	2½			
C. Duarte	2½	2½			

MATERIAL LIST:
Gaylynn, Cradle

JOB DESCRIPTION:
Haul out

DAILY TIME LOG

DATE:	Dec. 7, 96	CUSTOMER:	BASF
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 STOP TIME 19:30

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	6	6			
D. Gael	12	12			
Daniel Hernandez	9½	9½			
Jose Rodriguez	8½	8½			
R. Perez	12	12			
Juan Enrique	6	6			

MATERIAL LIST:
M/V Gaylynn, Craddle, Weldmachines, Cherry Picker
Cutting Rig, 3/8" x 3'8" x 3'8" plate, 9220 Gal. of City Water,
Air Compressor
Checking barge for Safe Entry and Weld

JOB DESCRIPTION:
Insert plate bowrake on deck - Starboard Side, Weld fracture
5' long at #3 wingtank Starboard Side, Ballast bowrake with
City Water, Meter reading Start: 009065500, Stop: 009074720 -
then haul barge out on craddle, and pumped out water in Bow ra

DAILY TIME LOG

DATE:	Dec. 8, 96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME 9:00 AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	2	2			

MATERIAL LIST:

JOB DESCRIPTION:
Check Barge for Safe Entry & Hot Work

DAILY TIME LOG

DATE:	Dec 9, 96	CUSTOMER:	BASF
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME 4:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	4	4			
D. Guel	8	8			
D. Hernandez	8	8			
R. Perez	8	8			
Jose Rodriguez	8	8			

MATERIAL LIST:
Welding machines, Cutting rig, Cherry Picker, Air Compressor

Checking barge for Safe Entry & Hot Work

JOB DESCRIPTION:
Use Cherry Picker to Set up Equipment
Weld fracture - (Port Side, Stern box, corner, top Side)

DAILY TIME LOG

DATE	12-10-96	CUSTOMER	BASF
JOB NO.	12-5327	BARGE	ETT-112

START TIME 8:00 AM STOP TIME 10:00 AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Carr	2				
Cruz	2				
Claudio	2				

MATERIAL LIST:

JOB DESCRIPTION:
Call and assist Caleb Brett - Inspector with - Inspection off Barge
Close Barge.

DAILY TIME LOG

DATE:	Dec. 10, 96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 Am STOP TIME 3:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	4	4			
D. Guel	8	8			
D. Hernandez	8	8			
R. Perez	7½	7½			
Juan Enrique	7½	7½			

MATERIAL LIST:
Weldmachines, Cutting Rig, Cherry Picker, 3/8" x 5 x 26" plate, gouger and rods, Air Compressor
Checking barge for Safe Entry and Hot Work

JOB DESCRIPTION:
Insert plate in bottom of bow rake, Starboard Side. Starboard Side Near Same area of Insert - weld fractures 2 - Approx. 1' long Each

DAILY TIME LOG

DATE:	Dec. 11, 96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 STOP TIME 18:30

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R. S. Pettit	6	6			
D. Guell	8 3	11			
D. Hernandez	8 3	11			
Jose Rodriguez	8 3	11			

MATERIAL LIST:
Weld machine, Cutting Rig, Air Compressor, Cherry Picker
3/4"x6'x3' plate

JOB DESCRIPTION:
Check barge for: Safe Entry and Hot Work, Weld plate - bottom of bow rake starboard side, Air test, find three more holes - bottom of bow rake, Informed Mr. R. Peters: Robert Peters inspected area - bottom - and instructed to cut move plate, Cut plate

DAILY TIME LOG

DATE:	Dec. 12, 96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME 4:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	4	4			
D. Guel	8 ½	8½			
D. Hernandez	8 ½	8½			
Jose Rodriguez	8 ½	8½			

MATERIAL LIST:
Weld machine, Cutting rig, Air Compressor

JOB DESCRIPTION:
Check Barge for Safe Entry and Hot Work, Fitting and Welding bottom plate, Air pressure tanks to test welds

DAILY TIME LOG

DATE:	Dec. 13, 96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT112

START TIME 7:00 STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R. S. Pettit	~~8~~ 6	14			
D. Hernandez	~~8~~ 6	14			
D. Guel	~~8~~ 6	14			
Jose Rodriguez	~~5~~	5			
C. Duarte	~~5.5~~	5.5			

MATERIAL LIST:
Weld machine, Air Compressor,

JOB DESCRIPTION:
Check barge for Safe Entry and Hot Work, Air Test tank, CG Inspect Insert

DAILY TIME LOG

DATE:	12-14-96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	9	9			
D. Hernandez		7.5			
D. Guel	7.5	7.5			
C. Duarte	5	5			
Jose Rodriguez		7			

MATERIAL LIST:
Weldmachine, Cutting Rig, Gas bottle, Cradle

Checking barge for Safe Entry and Hot Work

JOB DESCRIPTION:
Welding broken welds in wingtanks, and haul out of barge

DAILY TIME LOG

DATE:	12-15-96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME 3:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	2				
D. Hernandez	6				
D. Guel	8				
C. Duarte	6				
Jose Rodriguez	8				

MATERIAL LIST:
Waldmachine, Cutting Rig, Cherry Picker

Checking barge for Safe Entry and Hot Work

JOB DESCRIPTION:
Welding & fitting plate

DAILY TIME LOG

DATE	12-16-86	CUSTOMER	BASE
JOB NO.	12-5327	BARGE	Ett-112

START TIME 11:00 AM STOP TIME 1:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Cam	2				
Rivera	2				

MATERIAL LIST:

JOB DESCRIPTION:
Set up Pump + Hose on 7½ Gay Lynn
Pumped out Steam Box for Carst Laundentry Inspection

DAILY TIME LOG

DATE:	12-16-96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
F. Ramirez	5.5	5.5			
D. Hernandez	8 2	10			
D. Guel	8 2	10			
R. Rodriguez	1.5	1.5			
C. Duarte	8 2	10			
Jose Rodriguez	8 2	10			
R.S. Pettit	4	4			

MATERIAL LIST:

Weld machine, Cutting Rig,

Checking barge for Safe Entry and Hot Work

JOB DESCRIPTION:

DAILY TIME LOG

DATE:	12-17-96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME 5:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
F. Ramirez	8 / 2	10			
D. Hernandez	8 / 2	10			
D. Guel	8 / 2	10			
R. Rodriguez	8 / 1	9			
Jose Rodriguez	8 / 2	10			
Trino Rodriguez	8 / 1	9			
R.S. Pettit	4	4			

MATERIAL LIST:
Weld machine, Cutting rig, Cherry Picker

Checking barge for Safe Entry and Hot Work

JOB DESCRIPTION:
Fitting and welding plate, fitting and weld 2" knuckle

DAILY TIME LOG

DATE:	12-18-96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME 5:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
F. Ramirez	8 2	10			
D. Hernandez	8 2	10			
D. Guel	8 2	10			
R. Rodriguez	8 2	10			
T. Rodriguez	8 2	10			
Jose Rodriguez	8 2	10			
R.S. Pettit	4	4			

MATERIAL LIST:
Weld machine, Cutting rig, Air Compressor

Checking barge for Safe Entry and Hot Work

JOB DESCRIPTION:
Welding, gauging and fitting

DAILY TIME LOG

DATE:	12-19-96	CUSTOMER:	B.A.S.F.
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 7:00 STOP TIME 12:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
F. RAMIREZ	5	5			
D. HERNANDEZ	8 1½	9.5			
D. GUEL	8 3.5	11.5			
R. RODRIGEZ	3	3			
T. RODRIGEZ	3	3			
JOSE RODRIGEZ	4	4			
R.S. PETTIT	5 4	9			

MATERIAL LIST:
WEL MACHINE, CUTTING RIG, Air Compressor, ballast stern tank

JOB DESCRIPTION:
Welding and testing welds, CG Inspect welds, haul down barge

DAILY TIME LOG

DATE:	12-20-96	CUSTOMER:	BASF
JOB NO:	12-5327	BARGE:	ETT 112

START TIME 11:30 AM STOP TIME 2:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	2	2			
D. Gugl	2	2			
D. Hernander	2	2			

MATERIAL LIST:
Cradle, M/V Gaylynn

JOB DESCRIPTION:
Remove barge from cradle, and shift to dock for ballast water

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3699
DATE : Dec.16, 1996
Job No. : 12-5334
Location : Freeport, TX

TO:

BASF
607 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to ETT 115 as follows:

Barge needs strip and blow dry.
Have nitrogen pad put on board after cleaning and inspection are complete in preparation for loading normal butanol.

LABOR:	Foreman	5 hrs.	@	38.00 (ST)		190.00
	Leadman	5 hrs.	@	35.00 (ST)		175.00
	Journeyman	25 hrs.	@	32.50 (ST)		812.50
STOCK:		$37.00	Plus 25%	$9.25		46.25
EQUIPMENT:	Compressor	5 hrs.	@	48.00		240.00
	Air Movers	20 hrs.	@	5.00		100.00
	Vacuum	3 hrs.	@	30.00		90.00
	Hand Hose	3 hrs.	@	12.00		36.00
	2" Strip Pump	2 hrs.	@	15.00		30.00
				TOTAL AMOUNT DUE		**$1,719.75**

HEXANE FREIGHT - 60140-485112-19704

APPROVAL SIGNATURE_____

PHONE: (409) 233-6371

DAILY TIME LOG

DATE	12-17-96	CUSTOMER	BASE
JOB NO.	12-5334	BARGE	Ett-115

START TIME 11:00AM STOP TIME 4:30PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5				
Quintero	5				
Cassi	5				
Rivera	5				
SAM	5				
Cruz	5				
Mark	5				

MATERIAL LIST:

JOB DESCRIPTION:

Strip Blow down.
Nitrogen: Tad cing stake & Pipe line

HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

Date: 12-17-96 Job No: 5334 Barge/M/V: Ett-115

EQUIPMENT	HOURS
Compressor	5 ✓
Air Movers	20 ✓
Vacuum	3 ✓
Steam Rig	
Hand Hose	3 ✓
Boiler	
2" Strip Pump	2 ✓
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	
Respirator Filters	4
Gloves	
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. 3730
DATE Jan. 10, 1997
Job No. 1-5359
Location Freeport, TX

TO:

BASF
607 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to the ETT 112 as follows:

Strip and Blow dry. Fill with nitrogen.

LABOR:	Leadman	8.5	hrs.	@	35.00 (ST)	297.50
	Journeyman	30	hrs.	@	32.50 (ST)	975.00
STOCK:	49.10	Plus 25%			12.28	61.38
EQUIPMENT:	Compressor	6	hrs.	@	48.00	288.00
	Air Movers	24	hrs.	@	5.00	120.00
	Vacuum	4	hrs.	@	30.00	120.00
	Hand Hose	4	hrs.	@	12.00	48.00
	2" Strip Purup	2	hrs.	@	15.00	30.00
					TOTAL AMOUNT DUE	**$1,939.88**

NORMAL BUTANOL FREIGHT - 42290-134219-45200

APPROVAL SIGNATURE _____

97 JAN -4 AM 9:21

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

Date: 1-10-97 Job No: 53.59 Barge/M/V: EXT 112

EQUIPMENT	HOURS
Compressor	6
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Boiler	
2" Strip Pump	2
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	
Respirator Filters	4
Gloves	
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

DAILY TIME LOG

DATE	1-10-97	CUSTOMER	BASF
JOB NO.	5359	BARGE	Ettz 112

START TIME 7:30 AM STOP TIME 2:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	8½				
Caron	6				
Mark	6				
Cruz	6				
Quinton	6				
Rivera	6				

MATERIAL LIST:

JOB DESCRIPTION: Strip + Blow Drip / Nitrogen Pad

385

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. 3730
DATE Jan. 10, 1997
Job No. 1-5359
Location Freeport, TX

TO:

BASF
607 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to the ETT 112 as follows:

Strip and Blow dry. Fill with nitrogen.

LABOR:	Leadman	8.5	hrs.	@	35.00 (ST)	297.50
	Journeyman	30	hrs.	@	32.50 (ST)	975.00
STOCK:	49.10	Plus 25%			12.28	61.38
EQUIPMENT:	Compressor	6	hrs.	@	48.00	288.00
	Air Movers	24	hrs.	@	5.00	120.00
	Vacuum	4	hrs.	@	30.00	120.00
	Hand Hose	4	hrs.	@	12.00	48.00
	2" Strip Pump	2	hrs.	@	15.00	30.00
					TOTAL AMOUNT DUE	**$1,939.88**

NORMAL BUTANOL FREIGHT - 42290-134219-45200

APPROVAL SIGNATURE _____

97 JAN -4 A9:21

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

Date: 1-10-97 Job No: 53559 Barge/M/V: Ext 112

EQUIPMENT	HOURS
Compressor	6
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Boiler	
2" Strip Pump	2
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	
Respirator Filters	4
Gloves	
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

DAILY TIME LOG

DATE	1-10-97	CUSTOMER	BASF
JOB NO.	5359	BARGE	Ett-112

START TIME 7:30 AM STOP TIME 21:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	8½				
Caron	6				
Mark	6				
Cruz	6				
Quinten	6				
Rivera	6				

MATERIAL LIST:

JOB DESCRIPTION: Strip + Blow Dry / Nitrogen Pad

385

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

DATE : Feb. 9, 1997

Job No. : 2-5396

Location : Freeport, TX

MAR 1997
BASF/Freeport
Accounts Payable

O:

BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

OR:

Service to the ETT 110 as follows:

Strip and Blow. Check engine for oil leakage.
Located and removed cover with hole, weld hole and replace cover.

LABOR:	Leadman	7.5 Hrs.	@	35.00 (ST)	262.50
	Journeyman	28 Hrs.	@	32.50 (ST)	910.00
STOCK:	45.10	Plus 25%		11.28	56.38
EQUIPMENT:	Compressor	6 hrs.	@	40.00	240.00
	Air Movers	20 hrs.	@	5.00	100.00
	Vacuum	3 hrs.	@	30.00	90.00
	Hand Hose	3 hrs.	@	12.00	36.00
				TOTAL AMOUNT DUE	$1,694.88

60140 - 44050

WO# 7601411

APPROVAL SIGNATURE _____

E: (409) 233-6371

DAILY TIME LOG

DATE:	2-9-97	CUSTOMER:	BASF
JOB NO:	5396	BARGE:	Ett=110

START TIME 9:00 AM
2:00 PM

STOP TIME 12:00 PM
7:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	7½				
Cesar	6½				
Quinten	6½				
Cesar	6½				
Rivera	6½				
Joel	2				

MATERIAL LIST:

JOB DESCRIPTION:

Setup and stand-by for Strip & Blow Barge (110). Upon arrival (Strip & Blow Day) Check for oil leak (oil spill on Deck); located ~~oil~~ hole in sensor plate cover to motor. ~~not~~ Removed and welded hole on Plate. Reinstalled on motor.

35½ hrs

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date 2-9-97 Job No: 2-5396 Barge/M/V: Ett=110

EQUIPMENT	HOURS
Compressor	5
Air Movers	20
Vacuum	3
Steam Rig	
Hand Hose	3
Boiler	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	2
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6376

Date: 12-9-92 Job No: 2-5396 Barge/M/V: ETT=110

EQUIPMENT	HOURS
Compressor	
Air Movers	6
Vacuum	20
Steam Rig	3
Hand Hose	
Boiler	3
2" Sump Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	2
Flashlights	
Gaskets	
Couples	
Boots	2
Raincoats	
White Rags	

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3766
DATE : Feb. 12, 1997
Job No. : 2-5400
Location : Freeport, TX

MAR 1997
BASF/Freeport
Accounts Payable

WO#

TO: BASF
602 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the ETT 112 as follows:
Strip and blow dry. Do internal structures.
Deballast bow and stern rake.

LABOR:	Leadman	30 Hrs.	@	35.00 (ST)	$ 1,050.00
	Leadman	2.5 Hrs.	@	49.50 (OT)	123.75
	Journeyman	108.5 Hrs.	@	32.50 (ST)	3,526.25
	Journeyman	12.5 Hrs.	@	45.75 (OT)	571.88
MATERIAL:	250.00	Plus 25%	@	62.50	312.50
STOCK:	71.50	Plus 25%	@	17.88	89.38
CHEMIST:	300.00	Plus 25%	@	75.00	375.00
EQUIPMENT:	Compressor.	12 Hrs.	@	48.00	576.00
	Air Movers	32 Hrs.	@	5.00	160.00
	Tugboat	1 Hr.	@	100.00	100.00
	Vacuum	4 Hrs.	@	30.00	120.00
	Hand Hose	4 Hrs.	@	12.00	48.00
	3" Gas Pump	12 Hrs.	@	18.00	216.00
	2" Strip Pump	8 Hrs.	@	15.00	120.00
	Haul Out	1	@	1,100.00	1,100.00
				TOTAL AMOUNT DUE	$ 8,488.76

60140 - 44050

WO# 7601412

APPROVAL SIGNATURE _____

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

DAILY TIME LOG

DATE:	2-13-97	CUSTOMER:	BASF
JOB NO:	5400	BARGE:	Eft=112

START TIME 7:00 AM STOP TIME 9:00 AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	2	✓			
Cesar	1				
Quinten	2				
Cruz	2				
Rivera	2				

MATERIAL LIST:

JOB DESCRIPTION:

Finish venting out for Chemist inspection and released for Hot Work.

9 hrs

DAILY TIME LOG

DATE:	2-17-97	CUSTOMER:	BASF
JOB NO:	5400	BARGE:	ETT-112

START TIME 7:00AM STOP TIME 9:00AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	2 ✓				
Cruz	2				
Quinton	1½				
Rivera	1½				

MATERIAL LIST:

JOB DESCRIPTION:
Ballast Stern Box + W/F #9 1/2" to load onto Cradle

7 hrs

DAILY TIME LOG

DATE:	2-19-97	CUSTOMER:	BASF
JOB NO:	5400	BARGE:	EXT=112

START TIME 12:30 PM STOP TIME 4:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	4 1				
Cruz	4				
SAM	2				
Quinten	2				

MATERIAL LIST:

JOB DESCRIPTION:

BALLAST BOW. AD. STBD. RDKC
PUMP WATER WING. TANK NO=4

12 hrs.

DAILY TIME LOG

DATE:	2-12-97	CUSTOMER:	BASF
JOB NO:	5400	BARGE:	Ett 112

START TIME 1:30 PM STOP TIME 9:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	6 ✓				
Cami	3				
Quintin	7				
Cruz	7				
Rivera	3				

MATERIAL LIST:

JOB DESCRIPTION:

Strip. Blow Down. to Rebuilt Boiler. stern Rake

26 hrs.

DAILY TIME LOG

DATE:	2-18-97	CUSTOMER:	BASF
JOB NO:	2-5400	BARGE:	Ettl 12

START TIME 7:00 AM STOP TIME 4:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	1 / 1	2			
D. Hernandez	1 / 8	9 ✓			
E. Salazar	1 / 8	9			
D. Mercad	1 / 6.5	7.5			
R. Najera	6	6			
L. Najera	1 / 8	9			
D. Gael	1 / 8	9			

MATERIAL LIST:
Weldmachine, Cutting Rig,

JOB DESCRIPTION:

51.50 hrs

DAILY TIME LOG

DATE:	2-18-97	CUSTOMER:	BASF
JOB NO:	2-5400	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R. S. Pettit	1	2			
D. Hernandez					
D. Guel					
E. Salazar					
R. Najera					
L. Najera					

MATERIAL LIST:
Cutting Rig, Weld machine, Air Compressor, gauger.

JOB DESCRIPTION:
Check barge for Safe Safe Entry & Hot Work,

2 hrs

DAILY TIME LOG

DATE:	2-19-97	CUSTOMER:	BASF
JOB NO:	2-5400	BARGE:	ETT 1/2

START TIME 7:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	6.5 1	7.5			
D. Hernandez	5.5 1	6.5 ✓			
D. Guel	5.5 1	6.5			
R. Najera	5.5 1	6.5			
L. Najera	5.5 1	6.5			

MATERIAL LIST:
Weldmachine, Air Compressor,

JOB DESCRIPTION:
Welding: broken welds, Do internal Inspection with CG, - Air pressured #1 wing tank CG check Insert for leaks - CG past Inspect. Remove Equipment from barge, launch barge, then ballast Checked barge for Safe Entry and Hot work

33.50

DAILY TIME LOG

DATE:	2-17-97	CUSTOMER:	BASF
JOB NO:	2-5400	BARGE:	ETT 112

START TIME 2:00 PM STOP TIME 5:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	~~4.5~~ .5	5			
D. Hernandez	~~2.5~~ .5	3 ✓			
J. Rivera	~~2.5~~ .5	3			
C. Duarte					

MATERIAL LIST:
M/V Gay Lynn, Cradle

JOB DESCRIPTION:
Check barge for Safe Entry and Hot work, Ballast stern box and #4 Wing tank and hauled out

11 hrs

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6376

Date: 12-12-97 Job No: 5400 Barge/M/V: ETE 112

EQUIPMENT	HOURS
Compressor	8 + 4 =12
Air Movers	32
Vacuum	4
Steam Rig	
Hand Hose	4
Roller	
2" Strip Pump	8
3" Diesel Pump	12
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	
Batteries	3 + 7
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

HERCULES
MARINE SERVICES CORPORATION
P.O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3768
DATE : Feb. 18, 1997
Job No. : 2-5402
Location : Freeport, TX

BASF
602 Copper Road
Freeport, TX 77541

MAR 1997
BASF/Freeport
Accounts Payable

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

Service to the ETT 115 as follows:

Strip and Blow. Purge cargo tanks with nitrogen.

LABOR:	Leadman	5 Hrs.	@	35.00	(ST)	$ 175.00
	Leadman	3.5 Hrs.	@	49.50	(OT)	173.25
	Journeyman	23 Hrs.	@	32.50	(ST)	747.50
	Journeyman	3.5 Hrs.	@	45.75	(OT)	160.12
STOCK:	31.00	Plus 25%	@	7.75		38.75
EQUIPMENT:	Compressor,	5 Hrs.	@	48.00		240.00
	Air Movers	20 Hrs.	@	5.00		100.00
	Forklift	3 Hrs.	@	30.00		90.00
	Vacuum	3 Hrs.	@	30.00		90.00
	Hand Hose	3 Hrs.	@	12.00		36.00
				TOTAL AMOUNT DUE		$1,850.62

NORMAL BUTANOL FREIGHT - 42290-134219-45200

APPROVAL SIGNATURE_____

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

DAILY TIME LOG

DATE:	2-18-97	CUSTOMER:	BASF
JOB NO:	2-5402	BARGE:	ETT-115

START TIME 11:00 AM
11:30 PM.

STOP TIME 4:30 PM
3:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5				
Caron	5				
Quinton	5				
Cruz	5				
Rivera	4				
SAM.	4				

MATERIAL LIST:

JOB DESCRIPTION:
Strip Blow down ad. Nitrogen. Pad.

J.H.

DAILY TIME LOG

DATE:	2-18-97	CUSTOMER:	BASF
JOB NO:	2-5402	BARGE:	ETT 115

START TIME 19:30 PM STOP TIME 3:00 AM - 2-19-97

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	3.5	3.5			
C. Duarte	3.5	3.5			

MATERIAL LIST:

Nitrogen Truck - U-Cisco

JOB DESCRIPTION:

Purge Cargo Tanks - Truck Down from 0000 - 1:30 AM

NW

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 2-18-97 Job No: 5402 Barge/M/V: EXT-115

EQUIPMENT	HOURS
Compressor	5
Air Movers	20
Vacuum	3
Steam Rig	
Hand Hose	3
Roller	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	
Respirator Filters	3
Gloves	2
Flashlights	
Gaskets	
Goggles	1
Boots	
Raincoats	
White Rags	

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3771 207112

DATE : Feb. 22, 1997

Job No. : 2-5405

Location : Freeport, TX

MAR 1997
BASF / Freeport
Accounts Payable

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the EFT 113 as follows:

Strip and blow dry. Check for fractures. Chemist.
COI Inspection. Deballast stone rake.
Replaced two wing nuts and bolts of hatch. Grease all wing bolts and nuts on hatches. Test vapor line; cargo line for inspection. Repair emergency shut off cable (stuck on wheel).

LABOR:	Leadman	11.5 Hrs.	@	35.00 (ST)	$ 402.50
	Journeyman	59.5 Hrs.	@	32.50 (ST)	1,933.75
WATER:	70,000 Gallons		@	5.00/1,000 Gals.	350.00
STOCK:	70.60	Plus 25%	@	17.65	88.25
CHEMIST:	300.00	Plus 25%	@	75.00	375.00
EQUIPMENT:	Compressor	6 Hrs.	@	48.00	288.00
	Air Movers	24 Hrs.	@	5.00	120.00
	Vacuum	4 Hrs.	@	30.00	120.00
	Hand Hose	4 Hrs.	@	12.00	48.00
	3" Gas Pump	2 Hrs.	@	18.00	36.00
	2" Strip Pump	2 Hrs.	@	15.00	30.00
				TOTAL AMOUNT DUE	$ 3,791.50

60140 - 44050

WO# 7601413

APPROVAL SIGNATURE _____

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 7-22-97 Job No: _____ Barge/M/V: ETT-113

EQUIPMENT	HOURS
Compressor	6
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Roller	
2" Strip Pump	2
3" Diesel Pump	2
4" Electric Pump	
Crane	
Cherry Picker	–
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	4
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

DAILY TIME LOG

DATE:	2-24-97	CUSTOMER:	BASF
JOB NO:		BARGE:	EH=113

START TIME 8:00AM STOP TIME 12:00PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	4				
Quinten	4				
Cesar	4				
Cruz	4				

MATERIAL LIST:

JOB DESCRIPTION:

Grease all swing bolts + nut on hatch.
Test vapor + cargo line.

DAILY TIME LOG

DATE:	2-22-97	CUSTOMER:	BASF
JOB NO:		BARGE:	Ettelle

START TIME 7:30 STOP TIME 3:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	7½				
Cesar	6				
Quinton	6				
Carlos	6				
Rivera	6½				

MATERIAL LIST:

JOB DESCRIPTION:

Strip & Blow Dry (for Coast Guard Inspection) Check for Exterior Fractures. Deballast Steam Box to Weld (1) one Fracture on Port Side wall 5" off knuckle. Replaced (2) two Wing Bolt & Nuts.

DAILY TIME LOG

DATE:	2-26-97	CUSTOMER:	BASF
JOB NO:	2-5405	BARGE:	ETT 113

START TIME 10:50 AM STOP TIME 2:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	3	3			
D. Hornander	1	1			

MATERIAL LIST:

JOB DESCRIPTION:
CG Inspection – Repair Sight glass cover – do paper work

DAILY TIME LOG

DATE:	2-24-97	CUSTOMER:	BASF
JOB NO:	2-5405	BARGE:	ETT 113

START TIME 8:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R. S. Pettit	3	3			
J. Rivera					

MATERIAL LIST:
Air Compressor, High level Alarm tester, Sprayer with Soap,

JOB DESCRIPTION:
Start Engine on barge - Check Emergency Shut down; Cable locked in tubing - Cleaned tubing and oiled pulleys. tighten fan belts on Engine - Check high level Alarm. Vapor tighten test

DAILY TIME LOG

DATE:	2-22-97	CUSTOMER:	BASF
JOB NO:	2-5405	BARGE:	ETT 113

START TIME 7:30 STOP TIME 4:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	5.5	5.5			
D. Gael	7.5	7.5			
L. Najera	3	3			

MATERIAL LIST:
White paint, Small paint brush, M/V GayLynn, Welding Machine and Chemist

JOB DESCRIPTION:
Check barge for fractures, Check CG documents, found some fractures, Clean barge - strip & blow, Chemist Checks barge for Safe Entry and Hot work, Welder weld fracture, Used M/V GayLynn for painting draft Marks

HERCULES
ARINE SERVICES CORPORATION
. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3796
DATE : March 6, 1997
Job No. : 3-5430
Location : Freeport, TX

D: BASF
602 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

DR: Service to the ETT 114 as follows:

Remove pump from old mount, fit and weld new mount plate, install pump. Weld broken welds and fractures, using boat for welding off of at bow rake. Weld fracture at stern box. Strip and blow dry. Gas free for chemist inspection.

LABOR:	Leadman	7.5 Hrs.	@	35.00 (ST)	$ 262.50
	Leadman	8.5 Hrs.	@	49.50 (OT)	$ 420.75
	Journeyman	21 Hrs.	@	32.50 (ST)	$ 682.50
	Journeyman	26 Hrs.	@	45.75 (OT)	$ 1,189.50
STOCK:	$77.00	Plus 25%	@	19.25	$ 96.25
CHEMIST:	$300.00	Plus 25%	@	75.00	$ 375.00
EQUIPMENT:	Compressor	5 Hrs.	@	48.00/Hr.	$ 240.00
	Air Movers	20 Hrs.	@	5.00/Hr.	$ 100.00
	Vacuum	3 Hrs.	@	30.00/Hr.	$ 90.00
	Hand Hose	4 Hrs.	@	12.00/Hr.	$ 48.00
	Tugboat	1 Hr.	@	100.00/Hr.	$ 100.00
	Cherry Picker	3 Hrs.	@	70.00/Hr.	$ 210.00
MATERIAL:	$57.00	Plus 25%	@	14.25	$ 71.25

60140 - 44050 TOTAL AMOUNT DUE $ 3,885.75

WO# 7601414

APPROVAL SIGNATURE _____

MAR 1997
BASF/Freeport
Accounts Payable

... (409) 233-6371

Strength through Experience, Equipment, Know-How

DAILY TIME LOG

DATE:	3-6-97	CUSTOMER:	BASF
JOB NO:	5430	BARGE:	Ett=114

START TIME 3:30 PM STOP TIME 9:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5 1/2	4 1/2			
Cesar	5 1/2	4 1/2			
Quidler	5 1/2	4 1/2			
Cruz	5 1/2	4 1/2			
Rivera	5 1/2	4 1/2			

MATERIAL LIST:

JOB DESCRIPTION:

Strip Blow & Ay. Didn't finish on this day, because of weather condition did not permit (foggy).

27.5

DAILY TIME LOG

DATE:	3-7-97	CUSTOMER:	BHSF
JOB NO:	5430	BARGE:	FFT=114

START TIME 7:00 AM STOP TIME 9:00 AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
CLAUDIO	2 ✓				
CASAS	2				
CRUZ	2				
RIVERO	2				
Quintin	2				

MATERIAL LIST:
Used two (2) 8" Gaskets for Pump.

JOB DESCRIPTION:
continued on job presidure. Chemist - Inspection, and remove set up from barge.

10✓

DAILY TIME LOG

DATE:	3-7-97	CUSTOMER:	BASF
NO:	3-5430	BARGE:	ETT 114

START TIME 10:30 AM STOP TIME 2:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
D. Hernandez	~~4.5~~ 4	8.5			
D. Guel	~~4.5~~ 4	8.5			
D. Duarte	~~4.5~~ 4	8.5			

MATERIAL LIST:
Cherry Picker, Cutting Rig, Weldmachine, M/V Gaylynn

JOB DESCRIPTION:
Remove pump from old mount, fit and weld new mount plate, install pump, weld broken welds and fractures, using boat for welding off of tatbow rake, weld fracture at stern box

25.5

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date 3-6-92 Job No: 5430 Barge/M/V: Ett 114

EQUIPMENT	HOURS
Compressor	
Air Movers	5
Vacuum	20
Steam Rig	3
Hand Hose	
Boiler	4
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	4
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

HERCULES
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Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

Date: 3-2-97 Job No: 3-5430 Barge/M/V: Ett 114

EQUIPMENT	HOURS
Compressor	
Air Movers	
Vacuum	
Steam Rig	
Hand Hose	
Boiler	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	3
Forklift	
Tug Boat	1
Welding Machine	4 N/C
Cutting Rig	4 N/C
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	
Batteries	
Respirator Filters	
Gloves	
Flashlights	
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

30111

HERCULES
MARINE SERVICES CORPORATION
O[illegible]wer O • Freeport, Texas 77541

INVOICE NO. : 3853
DATE : 4-21-97
Job No. : 4-5488
Location : Freeport, TX

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

BASF
602 Copper Road
Freeport, Texas 77541

F91392

OR: Services to the ETT 112 as follows:

Strip and blow dry. Deballast wing tank #4 and bow rake.
Weld two fractures, one on stern box and one on bow rake.
Weld dog back on wing tank hatch cover.

LABOR:	Leadman	5 Hrs.	@	35.00 (ST)	$ 175.00
	Leadman	3.5 Hrs.	@	49.50 (OT)	$ 173.25
	Journeyman	15 Hrs.	@	32.50 (ST)	$ 487.50
	Journeyman	10.5 Hrs.	@	45.75 (OT)	$ 480.38
STOCK:	$49.00	Plus 25%	@	12.25	$ 61.25
CHEMIST:	$300.00	Plus 25%	@	75.00	$ 375.00
EQUIPMENT:	Compressor	8 Hrs.	@	48.00/Hr.	$ 384.00
	Air Movers	32 Hrs.	@	5.00/Hr.	$ 160.00
	Vacuum	4 Hrs.	@	30.00/Hr.	$ 120.00
	Hand Hose	3 Hrs.	@	12.00/Hr.	$ 36.00
	2" Strip Pmp	8 Hrs.	@	15.00/Hr.	$ 120.00
	3" Gas Pump	12 Hrs.	@	18.00/Hr.	$ 216.00
	Weld Machine	2 Hrs.	@	15.00/Hr.	$ 30.00
	Cutting Rig	1 Hr.	@	8.00/Hr.	$ 8.00

TOTAL AMOUNT DUE $2,826.38

60140 - 44050
WO #7601412

APPROVAL SIGNATURE _____

ONE: (409) 233-6371

Equipment Know-How

DAILY TIME LOG

DATE:	4-21-97	CUSTOMER:	BASF
JOB NO:	5488	BARGE:	EXT=112

START TIME 11:00AM STOP TIME 7:30PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Valentin	5 3.5	5 3.5			
Cruz	5 3.5	5 3.5			
Quintero	5 3.5	5 3.5			
SAm	5 3.6	5 3.5			

MATERIAL LIST:

JOB DESCRIPTION:

Top = 18 Stone Lin / Detail w/ #1 Contractor
and 3 Lecture = 1 on Ultra Line and for Bow Baker
and Log back on w/ batch Zone #4

3hr

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 4-21-97 Job No: 5499 Barge/M/V: EXT-112

EQUIPMENT	HOURS
Compressor	8
Air Movers	32
Vacuum	4
Steam Rig	
Hand Hose	3
Boiler	
2" Strip Pump	8
3" Diesel Pump	12
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	2
Cutting Rig	1
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	1
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

ERCULES
NE SERVICES CORPORATION
Drawer O • Freeport, Texas 77541

INVOICE NO. : 3859
DATE : 4-23-97
Job No. : 4-5494
Location : Freeport, TX

BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

F91392

Services to the EIT 113 as follows:

Strip and Blow Dry. Release to Brown Water IV.

LABOR:	Leadman	2.5 Hrs. (ST)	@	$ 35.00/Hr.	$ 87.50
	Leadman	3.0 Hrs. (OT)	@	$ 49.50/Hr.	$ 148.50
	Journeyman	6.0 Hrs. (ST)	@	$ 32.50/Hr.	$ 195.00
	Journeyman	12.0 Hrs. (OT)	@	$ 45.75/Hr.	$ 549.00
STOCK:	$57.00	Plus 25%	@	$ 14.25	$ 71.25
EQUIPMENT:	Compressor	5 Hrs.	@	$ 48.00/Hr.	$ 240.00
	Air Movers	20 Hrs.	@	$ 5.00/Hr.	$ 100.00
	Vacuum	4 Hrs.	@	$ 30.00/Hr.	$ 120.00
	Hand Hose	3 Hrs.	@	$ 12.00/Hr.	$ 36.00
				TOTAL AMOUNT DUE	$ 1,547.25

ANOLON FREIGHT - 42350-132149-45200
~~HEXANE FREIGHT xxx 60140 x 833112 x 19704~~

APPROVAL SIGNATURE

JUN 1997
BASF/Freeport
Accounts Payable

NE: (409) 233-6371

5-22-97

Strength through Experience, Equipment, Know-How

DAILY TIME LOG

DATE:	4-23-97	CUSTOMER:	BASF
JOB NO:	5494	BARGE:	ETT-113

START TIME 1:30 PM STOP TIME 7:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Alvarado	5½	2.5-R 3.0-O			
Quintero	5½	2.5-R 3.0-O			
Cruz	5½	2.5-R 3.0-O			
Rivera	3½	2.5-R 3.0-O			
Caron	3½	2.5-R 3.0-O			

MATERIAL LIST: 13.5

JOB DESCRIPTION:

Strip. Blow down

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 11-23-97 Job No: 5494 Barge/M/V: ETI-113

EQUIPMENT	HOURS
Compressor	5
Air Movers	20
Vacuum	4
Steam Rig	
Hand Hose	3
Boiler	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

DATE : 4-27-97

Job No. : 4-5497

Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Services to the EIT 112 as follows:

Deballast. Strip and blow dry. Gas free for chemist inspection. Reballast bow rake to normal ballast and release to Brown Water IV.

LABOR:	Leadman	9 Hrs.	@	$ 35.00 (ST)	$ 315.00
	Journeyman	69 Hrs.	@	$ 32.50 (ST)	$ 2,242.50
	Journeyman	38.5 Hrs.	@	$ 45.75 (OT)	$ 1,761.37
WATER:	24,000 Gallons		@	$5.00/1,000 Gallons	$ 120.00
STOCK:	$49.00	Plus 25%	@	$ 12.25	$ 61.25
CHEMIST:	$300.00	Plus 25%	@	$ 75.00	$ 375.00
EQUIPMENT:					
	Compressor	8 Hrs.	@	$ 48.00/Hr.	$ 384.00
	Air Movers	24 Hrs.	@	$ 5.00/Hr.	$ 120.00
	Vacuum	4 Hrs.	@	$ 30.00/Hr.	$ 120.00
	Hand Hose	4 Hrs.	@	$ 12.00/Hr.	$ 48.00
	2" Strip Pump	10 Hrs.	@	$ 15.00/Hr.	$ 150.00
	3" Gas Pump	14 Hrs.	@	$ 18.00/Hr.	$ 252.00

TOTAL AMOUNT DUE $ 5,949.12

60140 - 44050

wo# 7601412

APPROVAL SIGNATURE _____

PHONE: (409) 233-6371

DAILY TIME LOG

DATE:	4-30-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
D. GUEL	8	8			
L. NAJERA	2 / 8	10			
BEN MOLINA	1 1/2 / 8	9 1/2			
PEDRO ARAUA	2 / 8	10			
SAM PETIT	2	2			

39.5

MATERIAL LIST:

JOB DESCRIPTION:

FIT AND WELD

CHECK BARGE FOR FITTER AND HOT WORK

DAILY TIME LOG

DATE:	4-30-97	CUSTOMER:	BASF
JOB NO:	45497	BARGE:	EXT-112

START TIME 8:00 AM STOP TIME 9:00 AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Alcudia	1				
Cruz	1				
Quintero	1				

MATERIAL LIST: 3

JOB DESCRIPTION:
Unload knuckle for fitter (locate near barge) to fit on ba

DAILY TIME LOG

DATE:	Monday 4-27-97	CUSTOMER:	BASE
JOB NO:	5497	BARGE:	EXT=112

START TIME 8:30 STOP TIME 4:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	7				
Carmen	6				
Quinton	7				
Cruz	7				
Rivera	7				

34

MATERIAL LIST:

JOB DESCRIPTION:

STRIP BLOW CRAG Dehallast wing tanks no= 4-3-2. Bow RAKE

DAILY TIME LOG

DATE:	4-28-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
D. Guel	8	8			
		8			

MATERIAL LIST:
Cutting Rig, Cherry Picker
½" X 6' X 7'6" plate

JOB DESCRIPTION:
Crop damanaged knuckle, Angle Iron and Stiffeners

DAILY TIME LOG

DATE:	4-29-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
SAM PETTIT	2	2			

2

MATERIAL LIST:

JOB DESCRIPTION:

CHECK BARGE FOR SAFE ENTRY AND HOT WORK

DAILY TIME LOG

DATE:	5-1-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
L. NAJERA	2.5	2.5			
I. SILVA	6	6			
D. GUEL	2.5	2.5			
R. NAJERA	6	6			
R.S. Pettit	2	2			

MATERIAL LIST:

19

JOB DESCRIPTION:

FINISH WELDING
AIR TEST BOW RAKE

Check barge for entry and Hot Work

DAILY TIME LOG

DATE:	5-2-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ET-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. PETTIT	2	2			
D. GUEL	1	1			
L. NAJERA	1	1			
D. HERNANDEZ	1	1			

5

MATERIAL LIST:

JOB DESCRIPTION:

CHECK BARGE FOR ENTRY AND HOT WORK
INSPECT BARGE WITH COAST GUARD

DAILY TIME LOG

DATE:	6-2-97	CUSTOMER:	BASF
JOB NO:	5497	BARGE:	EH-2112

START TIME 4:00 PM STOP TIME 6:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	2 1/2				
Cruz	2 1/2				
Quinten	1				

MATERIAL LIST: 6

JOB DESCRIPTION:

Ballast to Bow Rate

HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

Date: 4-22-97 Job No: _____ Barge/M/V: Ett-112

EQUIPMENT	HOURS
Compressor	8
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Boiler	
2" Strip Pump	10
3" Diesel Pump	14
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

DAILY TIME LOG

DATE:	5-1-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
L. NAJERA	2.5	2.5			
I. SILVA	6	6			
D. GUEL	2.5	2.5			
R. NAJERA	6	6			
R. S. Pettit	2	2			

MATERIAL LIST:

19

JOB DESCRIPTION:

FINISH WELDING
AIR TEST BOW RAKE

Check barge for entry and Hot Work

DAILY TIME LOG

DATE:	5-2-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ET-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. PETTIT	2	2			
D. GUEL	1	1			
L. NAJERA	1	1			
D. HERNANDEZ	1	1			

5

MATERIAL LIST:

JOB DESCRIPTION:

CHECK BARGE FOR ENTRY AND HOT WORK
INSPECT BARGE WITH COAST GUARD

DAILY TIME LOG

DATE:	6-2-97	CUSTOMER:	BASF
JOB NO:	5497	BARGE:	EH2112

START TIME 4:00 PM STOP TIME 6:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	2 1/2				
Cruz	2 1/2				
Quinlan	1				

MATERIAL LIST: 6

JOB DESCRIPTION:

BALLAST to BOW RAKE

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 4-27-97 Job No: _____ Barge/M/V: Ett=112

EQUIPMENT	HOURS
Compressor	8
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Boiler	
2" Strip Pump	10
3" Diesel Pump	14
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

ATTACHMENT 2

NOVEMBER 1996 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
11/01/96	11/01/96	PHILLIPS 1	ETT 114	1,319.08	404,874.12	2,638,159.77		11/3
11/02/96	11/01/96	CITGO 1	ETT 113	1,325.77	406,928.34	2,651,545.06	LOAD AT PHILLIPS	11/4
11/04/96	11/04/96	KOCH 1	ETT 110	1,293.41	396,629.52	2,586,817.73		11/7
11/04/96	11/02/96	PHILLIPS 2	ETT 112	1,341.70	411,818.40	2,683,408.69		11/6
11/07/96	11/04/96	PHILLIPS 3	ETT 114	1,327.50	407,459.64	2,655,007.01		11/9
11/09/96	11/06/96	CITGO 2	ETT 113	1,337.52	410,533.20	2,675,034.33	LOAD AT PHILLIPS	11/10
11/10/96	11/08/96	KOCH 2	ETT 112	1,332.13	408,504.60	2,664,267.00		11/12
11/11/96	11/08/96	PHILLIPS 4	ETT 110	1,261.80	387,292.92	2,523,600.67		11/14
11/13/96	11/12/96	PHILLIPS 5	ETT 114	1,322.51	405,928.32	2,645,028.93		11/16
11/16/96	11/13/96	CITGO 3	ETT 113	1,337.77	410,610.90	2,675,540.62	LOAD AT PHILLIPS	11/17
11/18/96	11/15/96	PHILLIPS 6	ETT 112	1,338.40	410,804.52	2,676,802.25		11/19
11/21/96	11/21/96	HUNTSMAN 1	ETT 113	1,338.15	410,726.40	2,676,293.22	LOAD AT PHILLIPS	11/24
11/23/96	11/17/96	CITGO 4	ETT 110	1,267.00	388,530.66	2,533,997.00	LOAD AT CORPUS	11/22
11/24/96	11/24/96	PHILLIPS 7	ETT 114	1,327.18	407,360.15	2,654,359.00		11/25
11/24/96	11/24/96	KOCH 3	ETT 112	1,309.58	401,587.20	2,619,151.72		11/27
11/26/96	11/25/96	CHEVRON 1	ETT 113	1,345.24	412,902.84	2,690,474.91	LOAD AT PHILLIPS	11/29
11/25/96	11/18/96	HUNTSMAN 2	ETT 114	1,302.52	399,422.10	2,605,030.94	LOAD AT PORT ARTHUR	11/20
11/30/96	12/02/96	CITGO 5	ETT 112				Carried over to Dec.96/LOAD AT CORPUS	
11/30/96	11/29/96	KOCH 4	ETT 114	1,037.27	318,084.06	2,074,544.24		12/01

DECEMBER 1996 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	ACTUAL GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
11/30/96	12/02/96	CITGO 5	ETT 112	1,331.75	408,388.26	2,663,508.00	Carried over from November 96/Load at Corpus	12/05
12/01/96	12/01/96	PHILLIPS 1	ETT 113	1,361.09	417,769.80	2,722,188.02		12/02
12/04/96	12/04/96	PHILLIPS 2	ETT 113	1,344.17	412,574.82	2,688,337.53		12/05
12/05/96	12/05/96	CITGO 1	ETT 114	1,338.07	410,326.14	2,676,147.00	LOAD AT CORPUS CHRISTI	12/07
12/07/96	12/07/96	KOCH 1	ETT 113	1,317.43	403,994.22	2,634,850.30		12/10
12/09/96	12/10/96	PHILLIPS 3	ETT 114	1,336.07	410,090.10	2,672,147.09		12/12
12/13/96	12/16/96	CITGO 2	ETT 113	1,349.00	413,676.90	2,698,001.00	LOAD AT CORPUS CHRISTI	12/18
12/12/96	12/13/96	KOCH 2	ETT 115	1,321.57	405,265.98	2,643,144.72		12/14
12/14/96	12/16/96	HUNTSMAN 1	ETT 114	1,334.59	409,259.34	2,669,189.42	LOAD AT PORT ARTHUR	12/17
12/15/96	12/20/96	PHILLIPS 4	ETT 110	1,286.37	394,835.70	2,572,749.42		12/20
12/16/96	12/22/96	CHEVRON 1	ETT 114	1,343.35	411,945.24	2,686,706.86	LOAD AT PORT ARTHUR	12/24
12/17/96	12/23/96	CITGO 3	ETT 112	1,334.40	409,198.02	2,668,789.00	LOAD AT CORPUS CHRISTI	12/27
12/17/96	12/21/96	KOCH 3	ETT 113	1,369.25	419,885.76	2,738,494.93		12/23
12/21/96	12/21/96	PHILLIPS 5	ETT 110	1,301.01	399,326.34	2,602,010.43		12/22
12/23/96	12/26/96	CITGO 4	ETT 110	1,272.90	390,340.44	2,545,800.00	LOAD AT CORPUS CHRISTI	12/31
12/23/96	12/25/96	KOCH 4	ETT 113	1,360.55	417,218.34	2,721,098.01		01/01
12/26/96	12/26/96	PHILLIPS 6	ETT 114	1,345.35	412,936.44	2,690,693.84		12/29
12/31/96	01/01/97	CITGO 5	ETT 114	1,314.45	403,081.14	2,628,895.20	LOAD AT PORT ARTHUR/HUNTSMAN	1/3
12/29/96	12/29/96	KOCH 5	ETT 112	1,318.91	404,449.08	2,637,816.90		1/2

JANUARY 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	ACTUAL GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
01/01/97	01/03/97	PHILLIPS 1	ETT 113	1,350.81	414,612.33	2,701,616.09		1/6
01/04/97	01/04/97	CITGO 1	ETT 110	1,250.52	383,477.22	2,501,038.00	LOAD AT CORPUS	1/8
01/05/97	01/06/97	KOCH 1	ETT 112	1,350.35	414,091.86	2,700,707.11		1/9
01/06/97	01/05/97	PHILLIPS 2	ETT 114	1,334.46	409,593.66	2,668,912.29		1/11
01/08/97	01/09/97	CITGO 2	ETT 113	1,365.90	418,858.02	2,731,792.00	LOAD AT CORPUS	1/12
01/10/97	01/14/97	PHILLIPS 3	ETT 114	1,361.12	418,033.97	2,722,237.21		1/14
01/18/97	01/21/97	KOCH 2	ETT 114	1,333.24	408,843.12	2,666,474.83		1/25
01/16/97	01/11/97	CITGO 3	ETT 110	1,278.96	392,199.78	2,557,927.00	LOAD AT CORPUS	1/16
01/18/97	01/16/97	PHILLIPS 4	ETT 114	1,316.42	404,056.80	2,632,834.11		1/19
01/18/97	01/28/97	KOCH 3	ETT 110	1,280.65	392,717.64	2,561,304.45		2/2
01/20/97	01/16/97	HUNTSMAN 1	ETT 113	1,366.21	418,954.20	2,732,419.29	LOAD AT PORT ARTHUR	1/20
01/22/97	01/22/97	PHILLIPS 5	ETT 113	1,355.35	416,006.22	2,710,696.22	(APPROX. 8,000 Bbls. Feb. Allocation)	1/23
01/27/97	01/26/97	CHEVRON 1	ETT 113	1,354.57	415,385.46	2,709,143.97	LOAD AT PORT ARTHUR	1/29
01/24/97	01/20/97	CITGO 4	ETT 110	1,297.06	397,749.24	2,594,121.00	LOAD AT CORPUS	1/22
01/24/97		KOCH 4					PRODUCT NOT AVAILABLE	
01/30/97		KOCH 5					PRODUCT NOT AVAILABLE	
01/30/97	01/31/97	CHEVRON 2	ETT 113	1,355.95	415,807.98	2,711,899.65	LOAD AT PORT ARTHUR	2/4
01/31/97		CITGO 5	ETT 114				LOAD AT CORPUS/CARRIED OVER TO FEB.97	1/31
(01/25/97)	01/28/97	(PHILLIPS 6)	ETT 115	1,252.80	384,531.42	2,505,606.73	(ALL FEBRUARY ALLOCATION)	1/28

FEBRUARY 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
01/31/97	02/02/97	CITGO 5	ETT 114	1,337.59	410,179.14	2,675,188.00	CARRIED OVER FROM JANUARY	2/4
02/02/97	02/06/97	CITGO 1	ETT 110	1,304.03	399,885.36	2,608,052.00	LOAD AT CORPUS CHRISTI	2/9
02/02/97	02/07/97	KOCH 1	ETT 113	1,347.94	413,351.40	2,695,877.83		2/10
02/04/97	02/07/97	PHILLIPS 1	ETT 114	1,306.87	409,127.05	2,613,744.00		2/7
02/09/97	02/12/97	PHILLIPS 2	ETT 114	1,207.23	408,454.20	2,661,487.57		2/13
02/09/97	02/09/97	KOCH 2	ETT 114	1,315.26	403,329.36	2,630,514.09		2/12
02/11/97	02/13/97	CITGO 2	ETT 113	1,365.98	418,884.48	2,731,965.00	LOAD AT CORPUS CHRISTI	2/15
02/13/97	02/14/97	HUNTSMAN 1	ETT 115	1,325.62	406,508.34	2,651,247.39		2/16
02/15/97	02/16/97	KOCH 3	ETT 114	1,340.10	410,948.58	2,680,206.64		2/20
02/16/97	02/17/97	CHEVRON 1	ETT 113	1,348.35	413,477.82	2,696,702.34		2/18
02/21/97	02/23/97	CITGO 3	ETT 114	1,336.29	409,780.56	2,672,589.00	LOAD AT CORPUS CHRISTI	2/25
02/22/97	02/22/97	KOCH 4	ETT 112	1,378.56	422,740.50	2,757,113.54		2/24
02/24/97	02/20/97	PHILLIPS 3	ETT 113	1,313.16	403,058.04	2,626,326.19		2/21
02/27/97	***	CHEVRON 2	THIS LOAD CANCELLED PER RHONDA AUSTIN OF CHEVRON, DUE TO ALLOCATION					
02/27/97	02/27/97	KOCH 5	ETT 112	1,337.05	410,011.56	2,674,095.39		3/2
02/28/97	***	CITGO 4	***	***	***	***	CARRIED OVER TO MARCH 97	2/28

MARCH 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
03/01/97	02/27/97	PHILLIPS 1	ETT 114	1,315.97	403,918.20	2,631,930.99		2/28
03/02/97	03/02/97	KOCH 1	ETT 114	1,337.54	410,164.02	2,675,089.74		3/4
03/03/97	03/01/97	CHEVRON 1	ETT 113	1,331.74	408,382.80	2,663,472.62		3/3
03/04/97	03/10/97	HUNTSMAN 1	ETT 113	1,353.87	415,169.58	2,707,736.00		3/14
03/05/97	03/04/97	CITGO 4	ETT 112	1361.93	417,640.86	2,723,854.00	CARRIED OVER FROM FEBRUARY	3/5
03/08/97	***	CHEVRON 2	CANCELLED PER RHONDA AUSTIN OF CHEVRON, DUE TO ALLOCATION					
03/08/97	03/07/97	KOCH 2	ETT 113	1,355.03	415,525.32	2,710,056.14		3/8
03/09/97	***	PHILLIPS 2	***	***	***	***	CARRIED OVER TO APRIL 97	
03/11/97	***	CITGO 1	***	***	***	***	CANCELED PER SPEEDY ROGERS	
03/14/97	03/15/97	KOCH 3	ETT 113	1,330.35	407,958.18	2,660,703.25		3/19
03/19/97	***	CITGO 2	***	***	***	***	CANCELED PER SPEEDY ROGERS	
03/20/97	03/21/97	KOCH 4	ETT 113	1,344.97	412,430.76	2,689,873.42		3/24
03/24/97	***	PHILLIPS 3	***	***	***	***	CARRIED OVER TO APRIL 97	
03/25/97	***	CITGO 3	***	***	***	***	CANCELED PER SPEEDY ROGERS	
03/26/97	03/22/97	KOCH 5	ETT 110	1,150.87	352,918.62	2,301,736.80		3/26
03/28/97	***	CITGO 4	***	***	***	***	CANCELED PER SPEEDY ROGERS	
03/31/97	03/27/97	KOCH 6	ETT 113	1,346.41	412,883.94	2,692,892.06		3/31

APRIL 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
04/01/97	04/01/97	PHILLIPS 1	ETT 113	1,342.76	412,143.06	2,685,524.18	CARRIED OVER FROM MARCH 97	4/1
04/03/97	04/01/97	CHEVRON 1	ETT 112	1,343.01	411,840.24	2,686,022.05		4/4
04/04/97	04/03/97	KOCH 1	ETT 115	1,364.04	418,287.66	2,728,072.12		4/7
04/07/97	04/01/97	PHILLIPS 2	ETT 110	1,319.48	404,995.92	2,638,953.41	CARRIED OVER FROM MARCH 97	4/3
04/07/97	04/08/97	CITGO 5	ETT 113	1,317.97	404,161.80	2,635,943.00	CARRIED OVER FROM MARCH 97	4/10
04/09/97	04/07/97	HUNTSMAN 1	ETT 110	1,299.23	398,414.10	2,598,456.76		4/8
04/10/97	04/08/97	KOCH 2	ETT 112	1,346.89	413,029.26	2,693,776.83		4/12
04/11/97	04/13/97	PHILLIPS 3	ETT 115	1,324.57	406,185.36	2,649,140.92	ARRIED OVER FROM MARCH 97/LOAD AT ITC TERMINA	4/15
04/12/97	04/14/97	CITGO 1	ETT 113	1,360.87	417,317.04	2,721,742.00		4/17
04/13/97	04/12/97	CHEVRON 2	ETT 110	1,293.02	396,510.66	2,586,042.52		4/13
04/15/97	04/29/97	PHILLIPS 4	ETT 115	1,343.12	412,254.36	2,686,249.41	MOVED PICKUP DATE TO 04/29/97 PER B.BROWN	4/30
04/15/97	04/14/97	KOCH 3	ETT 112	1,351.82	414,540.42	2,703,632.62		4/19
04/18/97	04/18/97	CITGO 2	ETT 115	1,352.37	414,710.10	2,704,740.00		4/20
04/20/97	04/21/97	PHILLIPS 5	ETT 115	1,347.69	413,655.90	2,695,381.84		4/23
04/21/97	04/20/97	KOCH 4	ETT 113	1,355.55	415,684.08	2,711,091.57		4/22
04/25/97	04/25/97	CITGO 3	ETT 110	1,064.75	326,510.10	2,129,499.00		4/27
04/24/97	04/25/97	PHILLIPS 6	ETT 115	1,330.93	408,510.90	2,661,857.02		4/28
04/29/97	04/29/97	CITGO 4	ETT 110	1,308.64	401,299.08	2,617,273.00		5/2
04/25/97	04/24/97	KOCH 5	ETT 112	1,342.58	411,708.78	2,685,164.66		4/25
04/28/97	***	PHILLIPS 7	***	***	***	***	CARRIED OVER TO MAY 97	
04/30/97	***	CITGO 5	***	***	***	***	CARRIED OVER TO MAY 97	
04/30/97	04/30/5/1/97	KOCH 6	ETT 113	1,347.29	413,151.48	2,694,573.95		5/3

MAY 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
04/30/97	05/03/97	CITGO 5	ETT 115	1,339.33	410,710.44	2,678,653.00	CARRIED OVER FROM APRIL 97	5/6
04/28/97	05/06/97	PHILLIPS 7	ETT 110	1,307.45	401,304.54	2,614,900.38	CARRIED OVER FROM APRIL 97	5/7
05/02/97	05/07/97	PHILLIPS 1	ETT 115	1,347.37	413,177.94	2,694,746.52	Load at ITC Terminal	5/10
05/04/97	05/04/97	KOCH 1	ETT 112	1,354.02	415,215.78	2,708,037.32		5/5
05/06/97	05/13/97	PHILLIPS 2	ETT 115	1,183.85	363,365.94	2,367,692.47	Changed pick-up date to 5/14-B.Brown	5/14
05/08/97	05/14/97	PHILLIPS 3	ETT 112	1,345.26	412,911.24	2,690,529.64	Changed pick-up date to 5/19-B.Brown	5/14
05/09/97	05/10/97	KOCH 2	ETT 112	1,347.86	413,328.72	2,695,729.91		5/11
05/10/97	***	PHILLIPS 4	CANCELLED DUE TO ALLOCATION PER B. BROWN					
05/12/97	05/13/97	CITGO 1	ETT 113	1,288.77	395,208.24	2,577,548.00		5/16
05/15/97	05/18/97	CITGO 2	ETT 112	1,314.53	403,105.08	2,629,051.00		5/21
05/15/97	05/24/97	KOCH 3	ETT 112	1,337.61	410,184.60	2,675,223.96		5/27
05/17/97	05/16/97	CHEVRON 1	ETT 110	1,309.46	401,551.92	2,618,921.62		5/17
05/19/97	***	PHILLIPS 5	CANCELLED DUE TO ALLOCATION PER B. BROWN					
05/20/97	05/29/97	KOCH 4	ETT 113	915.14	280,633.08	1,830,288.95		5/31
05/20/97	05/17/97	HUNTSMAN 1	ETT 115	1,323.80	405,950.58	2,647,609.68		5/19
05/21/97	05/23/97	CITGO 3	ETT 113	1,363.21	418,034.40	2,726,420.00		5/25
05/22/97	05/21/97	CHEVRON 2	ETT 115	1,320.70	404,998.02	2,641,397.09		5/23
05/23/97	05/27/97	CITGO 4	ETT 115	1,334.27	409,158.96	2,668,535.00		5/29
05/25/97	***	KOCH 5	***	***	***	***	Cancelled	
05/26/97		PHILLIPS 6	CANCELLED DUE TO ALLOCATION PER B. BROWN					
05/29/97	06/01/97	CITGO 5	ETT 112	1,370.44	420,252.42	2,740,886.00		6/2
05/31/97	***	KOCH 6	***	***	***	***	Cancelled	

JUNE 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
05/29/97	06/01/97	CITGO 5	ETT 112	1,370.44	420,252.42	2,740,886.00	CARRIED OVER FROM MAY 97	6/3
06/02/97	06/02/97	PHILLIPS 1	ETT 115	1,334.54	409,619.28	2,669,079.23		6/3
06/04/97	06/04/97	PHILLIPS 2	ETT 110	1,303.01	399,951.64	2,606,193.73		6/5
06/05/97	06/05/97	CHEVRON 1	ETT 115	1,324.45	406,149.66	2,648,908.08		6/7
06/06/97	06/09/97	CITGO 1	ETT 113	1,366.40	419,013.84	2,732,808.00		6/12
06/08/97	06/09/97	KOCH 1	ETT 112	886.02	271,701.36	1,772,036.27		6/14
06/09/97	06/10/97	PHILLIPS 3	ETT 115	1,329.67	408,124.08	2,659,336.51		6/11
06/11/97	06/13/97	HUNTSMAN 1	ETT 110	1,255.09	384,879.18	2,510,182.01		6/15
06/12/97	06/13/97	PHILLIPS 4	ETT 113	1,342.34	412,012.86	2,684,675.80		6/17
06/14/97	06/16/97	CITGO 2	ETT 115	1,079.30	330,970.92	2,158,592.00		6/19
06/17/97	06/19/97	CITGO 3	ETT 112	1,287.49	394,815.54	2,574,987.00		6/21
06/18/97	06/18/97	PHILLIPS 5	ETT 113	1,328.33	407,712.48	2,656,654.52		6/20
06/18/97	06/20/97	CHEVRON 2	ETT 110	1,281.40	392,946.54	2,562,797.33		6/23
06/21/97	06/21/97	CHEVRON 3	ETT 115	653.78	200,484.48	1,307,559.78	Partial load pickup (approx.5,000 bbls.)	6/26
06/23/97	06/24/97	PHILLIPS 6	ETT 110	1,283.63	393,993.60	2,567,262.30		6/25
06/23/97	***	KOCH 2	***	***	***	***	Cancelled due to lack of production.	
06/27/97	06/28/97	HUNTSMAN 2	ETT 115	1,320.03	404,794.32	2,640,068.56		6/30
06/27/97	***	KOCH 3	***	***	***	***	Cancelled due to lack of production.	
06/27/97	06/30/97	CITGO 4	ETT 110	1,325.17	406,368.48	2,650,335.00		7/2
07/02/97	06/27/97	PHILLIPS 1	ETT 113	1,348.25	413,828.52	2,696,506.64	Borrowed load from July 97 pickups	6/27
	06/29/97	HUNTSMAN 3	ETT 112	1,338.19	410,362.26	2,676,382.66	Borrowed load from July 97 pickups	6/30

JULY 1997 BASF CYCLOHEXANE SCHEDULE

SCHED. PICK-UP DATE	ACTUAL PICK-UP DATE	VENDOR	BARGE#	TONS	GALLONS	ACTUAL POUNDS	COMMENTS	UNLOAD DATE
07/03/97	07/07/97	CITGO 1	ETT 112	1,306.14	400,534.26	2,612,284.00	LOAD AT CORPUS CHRISTI	7/11
07/04/97	07/03/97	CITGO 2	ETT 113	1,344.87	412,791.54	2,689,749.67	LOAD AT PHILLIPS/DUPONT MATERIAL SWAP	7/3
07/05/97	07/02/97	HUNTSMAN 1	ETT 115	1,318.38	404,286.96	2,636,759.55		7/4
07/06/97	07/05/97	CHEVRON 1	ETT 110	1,258.12	385,809.06	2,516,246.69		7/7
07/08/97	07/07/97	PHILLIPS 2	ETT 113	1,342.64	412,105.26	2,685,277.87		7/8
07/09/97	07/26/97	KOCH 1	ETT 115	1,322.69	405,609.54	2,645,385.42	Pickup delayed due to lack of production.	7/27
07/11/97	07/14/97	MOBIL 1	ETT 113	1,323.90	405,979.56	2,647,798.69	MOBIL SINGAPORE IMPORT MATERIAL	7/16
07/12/97	07/14/97	MOBIL 2	ETT 115	1,112.41	341,125.68	2,224,821.68	MOBIL SINGAPORE IMPORT MATERIAL	7/17
07/16/97	07/31/97	KOCH 2	ETT 113				Pickup delayed due to lack of production.	8/2
07/17/97	07/10/97	PHILLIPS 3	ETT 115	1,337.27	410,457.18	2,674,538.98	Moved pick up date to the 11th.	7/10
07/20/97	07/16/97	CHEVRON 2	ETT 112	1,271.57	389,931.33	2,543,132.00	Litered (contaminated-Toulene) load.	7/18
07/21/97	07/15/97	CITGO 3	ETT 112	1,302.84	399,888.72	2,605,674.90	LOAD AT PHILLIPS/DUPONT MATERIAL SWAP	7/15
07/23/97	***	KOCH 3	***	***	***	***	Cancelled due to lack of production.	
07/24/97	07/20/97	PHILLIPS 4	ETT 113	1,330.32	408,324.84	2,660,644.66		7/21
07/24/97	07/27/97	CHEVRON 3	ETT 112	1,256.20	385,218.54	2,512,395.32	* Borrowed from August 97 pick-ups *	7/28
07/24/97	07/27/97	CHEVRON 3-B	ETT 113	123.16	37,766.40	246,312.46	* Borrowed from August 97 pick-ups *	7/29
07/25/97	07/20/97	CITGO 4	ETT 115	1,312.54	402,866.52	2,625,078.24	LOAD AT PHILLIPS/DUPONT MATERIAL SWAP	7/22
07/26/97	07/20/97	PHILLIPS 5	ETT 112	1,329.48	408,065.28	2,658,953.36		7/23
07/28/97	07/29/97	PHILLIPS 6	EIDC 72	1,348.98	414,051.54	2,697,959.83	Repayment to Huntsman via DuPont/Phillips	***
07/30/97	07/24/97	CITGO 5	ETT 113	1,314.84	403,571.70	2,629,673.20	LOAD AT PHILLIPS/DUPONT MATERIAL SWAP	7/25
August 97	07/28/97	PHILLIPS 1	ETT 115	1,325.03	406,701.54	2,650,067.23	* Borrowed from August 97 pick-ups *	7/30

ATTACHMENT 3

December 31, 1990

USA and WORLDWIDE

Material Safety Data Sheet

CYCLOHEXANE (98%, 99.5%, 99.8%, Research Grade, Spectro Grade)

PHILLIPS 66 COMPANY
A Division of Phillips Petroleum Company
Bartlesville, Oklahoma 74004

PHONE NUMBERS
Emergency:
Business Hours (918) 661-3865
After Hours (918) 661-8118
General MSDS Information:
(918) 661-8327
For Additional MSDSs: (918) 661-5952

A. Product Identification

Synonyms: Borger Refinery Stream No. 657; Sweeny Refinery Unit 19 Cyclohexane Product; Puerto Rico Core Stream No. 3216; Unit 3.2 Stabilizer Column Bottoms (Puerto Rico Core)
Chemical Name: Cyclohexane
Chemical Family: Cycloparaffinic Hydrocarbon
Chemical Formula: C6H12
CAS Reg. No.: 110-82-7
Product No.: N249,N24500,N24842

Product and/or Components Entered on EPA's TSCA Inventory: YES

This product is in U.S. commerce, and is listed in the Toxic Substances Control Act (TSCA) Inventory of Chemicals; hence, it is subject to all applicable provisions and restrictions of 40 CFR, section 721 and 723.250.

B. Hazardous Components

Ingredients	CAS Number	% By Wt.	OSHA PEL	ACGIH TLV
Cyclohexane	110-82-7	*	300 ppm	300 ppm

* See Section N for additional product composition information.

NA - Not Applicable NE - Not Established

C. Personal Protection Information

Ventilation: Use adequate ventilation to control exposure below recommended levels.

Respiratory Protection: For concentrations exceeding the recommended exposure level, use NIOSH/MSHA approved air purifying respirator. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. If conditions immediately dangerous to life or health (IDLH) exist, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA).

Eye Protection: Use safety glasses with side shields.

Skin Protection: Wear polyvinyl alcohol or Buna-N gloves. Use full-body, long sleeved garments to prevent skin contact.

NOTE: Personal protection information shown in Section C is based upon general information as to normal uses and conditions. Where special or unusual uses or conditions exist, it is suggested that the expert assistance of an industrial hygienist or other qualified professional be sought.

D. Handling and Storage Precautions

Avoid inhalation and skin and eye contact. Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Wash thoroughly after handling. Provide means of controlling leaks and spills. Immediately remove and launder contaminated clothing before reuse.

Store in a cool, well-ventilated area away from ignition sources. Provide means of controlling leaks and spills. Bond and ground during liquid transfer. Keep containers closed.

E. Reactivity Data

Stability: Stable
Conditions to Avoid: Not Applicable
Incompatibility (Materials to Avoid): Oxygen and strong oxidizing materials

Hazardous Polymerization: Will Not Occur
Hazardous Decomposition Products: Carbon oxides and various hydrocarbons formed when burned.

F. Health Hazard Data

Recommended Exposure Limits:

See Section B.

Acute Effects of Overexposure:

Eye: Contact with the liquid or high vapor concentrations may cause mild eye irritation including redness, swelling of mucous membranes and tearing.

Skin: Nominal skin absorption. May defat skin upon repeated or prolonged contact resulting in redness, swelling, pain or thickening. Prolonged exposure to high vapor concentrations may cause a mild mucous membrane irritation.

Inhalation: High vapor concentrations may cause dizziness, excitement, hyperactivity, rapid breathing, difficulty breathing, fatigue, headache, incoordination, tremors, nausea and respiratory irritation. Extreme exposures may cause anesthesia, unconsciousness and death.

Ingestion: May cause increased respiration rate, fatigue, diarrhea, nausea and central nervous system depression. Extreme exposure may cause circulatory collapse and death. May be aspirated into lungs if swallowed, resulting in pulmonary edema and chemical pneumonitis.

Subchronic and Chronic Effects of Overexposure:

No known applicable information.

Other Health Effects:

No known applicable information.

Health Hazard Categories:

	Animal	Human		Animal	Human
Known Carcinogen	___	___	Toxic	___	___
Suspect Carcinogen	___	___	Corrosive	___	___
Mutagen	___	___	Irritant	___	___
Teratogen	___	___	Target Organ Toxin	_X_	_X_
Allergic Sensitizer	___	___	Specify - Lung - Aspiration Hazard		
Highly Toxic	___	___			

First Aid and Emergency Procedures:

Eye: Flush eyes with water.

Skin: Flush skin with water for fifteen minutes.

Inhalation: Remove from exposure. If breathing is difficult, give oxygen and seek medical attention.

Ingestion: Do not induce vomiting. Seek immediate medical assistance.

Note to Physician: Gastric lavage using a cuffed endotracheal tube may be performed at your discretion.

G. Physical Data

Appearance:	Colorless Liquid
Odor:	Pungent
Boiling Point:	Approx. 177F (81C)
Vapor Pressure:	3.2 psia (165 mm Hg) at 100F
Vapor Density (Air = 1):	2.8
Solubility in Water:	Negligible
Specific Gravity (H_2O = 1):	0.77 at 60/60F
Percent Volatile by Volume:	100
Evaporation Rate (Butyl Acetate = 1):	>1
Viscosity:	Not Established

H. Fire and Explosion Data

Flash Point (Method Used):	-4F (-20C) (TCC, ASTM D56)
Flammable Limits (% by Volume in Air):	LEL - 1.3 UEL - 8.0
Fire Extinguishing Media:	Dry chemical, foam or carbon dioxide (CO_2)
Special Fire Fighting Procedures:	Evacuate area of all unnecessary personnel. Shut off source, if possible. Use NIOSH/MSHA approved self-contained breathing apparatus and other protective equipment and/or garments described in Section C if conditions warrant. Water fog or spray may be used to cool exposed containers and equipment. Do not spray water directly on fire - product will float and could be reignited on surface of water.
Fire and Explosion Hazards:	Carbon oxides and various hydrocarbons formed when burned. Highly flammable vapors which are heavier than air may accumulate in low areas and/or spread along ground away from handling site. Flash back along vapor trail is possible.

I. Spill, Leak and Disposal Procedures

Precautions Required if Material is Released or Spilled:
Evacuate area of all unnecessary personnel. In case of spill or leak resulting in unknown concentration, use NIOSH/MSHA approved supplied air respirator. In case of spill or leak which results in conditions immediately dangerous to life or health (IDLH) use NIOSH/MSHA approved self-contained breathing apparatus (SCBA) equipment. When entry into or exit from concentrations of unknown exposure, use NIOSH/MSHA approved self-contained breathing apparatus (SCBA). Shut off source, if possible and contain spill. Protect from ignition. Keep out of water sources and sewers. Absorb in dry, inert material. Transfer to disposal drums using non-sparking equipment.

Waste Disposal (Insure Conformity with all Applicable Disposal Regulations):
Incinerate or place in RCRA permitted waste management facility.

J. DOT Transportation

Shipping Name: Cyclohexane
Hazard Class: Flammable Liquid
ID Number: UN 1145
Marking: Cyclohexane/UN 1145
Label: Flammable Liquid
Placard: Flammable/1145
Hazardous Substance/RQ: Not Applicable
Shipping Description: Cyclohexane, Flammable Liquid, UN 1145
Packaging References: 49 CFR 173.118 and 173.119(a)

K. RCRA Classification - Unadulterated Product as a Waste

U056-Cyclohexane; Ignitable

L. Protection Required for Work on Contaminated Equipment

Wear protective equipment and/or garments described in Section C if exposure conditions warrant. Use NIOSH/MSHA approved respiratory protection, such as air-supplied mask, in confined spaces or other poorly ventilated areas. See Protective Clothing Requirements. Contact immediate supervisor for specific instructions before work is initiated.

M. Hazard Classification

_X_ This product meets the following hazard definition(s) as defined by the Occupational Safety and Health Hazard Communication Standard (29 CFR Section 1910.1200):

___ Combustible Liquid
___ Compressed Gas
___ Flammable Gas
_X_ Flammable Liquid
___ Flammable Solid
___ Flammable Aerosol
___ Explosive
_X_ Health Hazard (Section F)
___ Organic Peroxide
___ Oxidizer
___ Pyrophoric
___ Unstable
___ Water Reactive

___ Based on information presently available, this product does not meet any of the hazard definitions of 29 CFR Section 1910.1200.

N. *Additional Comments*

Additional Product Composition Information:

	Ingredient	% By Wt.
98.0%	Cyclohexane	98.7
	Methylcyclopentane	0.8
	Methylhexanes	0.3
	Dimethylpentane	0.2
99.5%	Cyclohexane	99.8
	Related Hydrocarbons	0.2
99.8%	Cyclohexane	99.9
	Related Hydrocarbons	0.1
Research and Spectro Grades	Cyclohexane	99.98
	2,4-Dimethylpentane	0.01
	3,3-Dimethylpentane	0.01

This product contains the following chemical or chemicals subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372. (See Section B):

Cyclohexane

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ATTACHMENT 4

BASF Corporation

BASF

BASF BARGE SCHEDULE FOR HERCULES

January 09, 1997

Friday, January 10, 1997 – 1000

ETT 112 – Last contained Cyclohexane. Strip, blow and dry barge and have Nitrogen pad put on board barge after cleaning is complete.

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE FOR HERCULES

March 06, 1997

ETT 114 – Contact McGill, they were suppose to build a mount replacement for the pump to sit on. Weld to new mount so that the pump will sit even. Check entire barge for any other repairs (large or small) that may be needed. Mailbox, motor cover, give the barge a thorough going over.

ETT 112 – Strip and blow dry in preparation for loading Anolon.

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

ATTACHMENT 5

BASF Corporation

BASF

DATE: 9-12-97

TO: Byron

COMPANY: TNRCC

FAX#: 713-767-3520

FROM:

COMPANY: BASF CORPORATION

FAX#: (409) 266-6728

OFFICE#: (409) 238-8409

PAGE 1 OF 6

CALL (409) 238-8409 IF ANY PORTION OF THIS FAX IS UNCLEAR, OR IF THERE ARE ANY QUESTIONS.

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF WEEKEND "HOLIDAY" BARGE SCHEDULE

DATE 27-Nov-96 - 11:46 AM

ETT 110: Empty (Cyclohexane) at W/F.Hold until further notice.

ETT 112: Discharging (Koch 3) at dock. Take to W/F after discharge is complete on Low tide 1000 Thursday. Brown Water IV will leave Friday to go to Corpus to load (Citgo 5) 11/30/96. Hold at W/F upon return.

 # Priority 1

ETT 113: Loaded (Chevron 1 @ Phillips) at W/F. Spot at dock after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Will discharge 0730 Friday. Take to W/F after discharge is complete on Low tide 1200 Saturday. Brown Canal will take to Phillips 1300 Sunday to load (Phillips I). Spot at dock after loading is complete. Barge will need to be gauged and sampled. Will discharge 0730 Monday.

*** Priority 2 / # Priority 4 / * Priority 5**

ETT 114: Empty (Phillips 7) at W/F. Brown Canal will take to Corpus to load (Koch 4) Friday 0100. Spot at dock upon arrival to Freeport. Barge will need to be gauged and sampled. Will discharge 0730 Saturday. Barge will be ballasted while being discharged. Take to W/F after discharge is complete. Brown Water IV will take to Hercules 0900 Monday for deballasting.

*** Priority 3 / # Priority 5**

ETT 115: Empty (NBOL) at W/F. Hold until further notice.

CCI 76: Empty (All Oleum) at W/F. Hold for Tug Javelina. Will load Split load (Acid/Oleum) upon return to Rhone-Poulenc. Hold at W/F upon return to Freeport until further notice.

SCC 106: Loaded (All Acid) enroute to Freeport. ETA 1300. Spot at dock after the SCC 60 has completed discharging. Will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javelina.

*** Priority 4 / # Priority 6**

SCC 60: Loaded (All Oleum) enroute to Freeport. ETA 1300. Spot at dock after the SCC 108 has completed discharging. Will discharge 0730 Thursday. Take to W/F after discharge is complete. Hold for Tug Javelina.

*** Priority 1 / # Priority 3**

SCC 108: Discharging (All Acid) at dock. Take to W/F after discharge is complete. Hold for Tug Javelina.

 # Priority 2

SCC 104: Loading (All Oleum) at Rhone-Poulenc. Spot at dock Sunday after the SCC 106 has completed discharging. Will discharge 0730 Monday.

*** Priority 6**

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 239-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 239-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 239 6100

BASF Corporation

BASF

BASF WEEKEND BARGE SCHEDULE

DATE 06-Dec-96 - 11:13 AM

ETT 110: Partially loaded (CPLX 1,922,126 lbs.) at B-1 Wall. Spot at dock after the ETT 115 has completed discharging (Anolon). Barge will need to be gauged and sampled. Will partially discharge 0730 Monday.
* Priority 5

ETT 112: Empty at Hercules being repaired.

ETT 113: Empty enroute to Corpus to load (Koch 1), via Brown Water IV. Hold at W/F upon return to Freeport.

ETT 114: Loaded (Citgo 1) at W/F. Spot at dock today. Barge needs to be gauged and sampled. Will discharge 0730 Saturday. Take to W/F on Low Tide 0600 12/06/96. Brown Canal will take to Phillips 1000 Monday to load (Phillips 3).
* Priority 1 / # Priority 2

ETT 115: Empty at Hercules being cleaned. Brown Canal will take to Stanran to load (2,800,000 lbs.) of Anolon. Spot at dock Saturday after the ETT 114 has completed discharging. Barge will need to be gauged and sampled. Will discharge as soon as spotted at dock. Barge will discharge Saturday and Sunday. Take to W/F after barge has completed discharge on Low Tide 0700 Monday. Brown Canal will take to Hercules Monday for cleaning.
* Priority 3 / # Priority 5

CCI 75: Loading (All Oleum) at Rhone-Poulenc. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Sunday. Take to W/F after discharge is complete. Hold for Tug Javelina.
* Priority 4 / # Priority 4

SCC 106: Loaded (All Acid) at W/F. Spot at dock after the SCC 80 has completed discharging. Barge will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javelina.
* Priority 2 / # Priority 3

SCC 80: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javelina.
Priority 1

SCC 108: Loading (All Acid) at Rhone-Poulenc. Spot at dock after the CCI 75 has completed discharging. Barge will discharge 0730 Monday.
* Priority 6

SCC 104: Loaded (Spent Sulfuric Acid) (541,750 lbs.) at W/F. Hold for Tug Javelina.

* – Priority to dock
# – Priority out to skimmer gate

– All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4018

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF C[illegible]oration

BASF

BASF WEEKEND BARGE SCHEDULE

DATE 21-Feb-97 ~ 11:02 AM

ETT 110: Loading (2.8 M lbs. of CPLX) at Stantran, via Brown Water IV. Spot at dock Sunday after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Barge will partially discharge 0730 Monday. * Priority 4

ETT 112: Empty (Clean) enroute to Corpus to load (Koch 4), via Brown Canal. ETA Corpus 1200. Spot barge at dock upon arrival at Freeport. Barge will need to be gauged and sampled. Will discharge 0730 Sunday. Take to W/F after discharge is complete on Low tide 0900 Monday. * Priority 2 / # Priority 3

ETT 113: Discharging (Phillips 3) at dock. Take to W/F after discharge is complete on Low tide 0800 Saturday. Take barge to Hercules for preparation for USCG COI Monday. # Priority 1

ETT 114: Empty (Cyclohexane) at W/F. Brown Water IV will take to Brown Water VII to take to Corpus to load (Cirgo 3). [illegible]

ETT 115: Discharging (NBOL) at Union Carbide, Seadrift, TX. Will return to Freeport, via Brown Water IV. Hold at W/F after arrival at Freeport.

SCC 75: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 3 / # Priority 4

SCC 106: Loaded (All Acid) at W/F. Spot at dock today. Barge will discharge 0730 Saturday. Take to W/F after decharge is complete. Hold for Tug Javalina. * Priority 1 / # Priority 2

SCC 80: Empty (All Oleum) enroute to Rhone-Poulenc. ETA Houston 1700. [illegible]

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc. ETA Houston 1700. [illegible]

SCC 107: Empty (All Oleum) at W/F. Hold for Tug Javalina.

*** – Priority to dock**
 # – Priority out to skimmer gate

 # – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-8161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 06-Mar-97 - 09:49 AM

ETT 110:	Empty (CPLX) at Hercules for USCG Mid-Term and internal structural exam.
ETT 112:	Empty at Hercules being stripped and blown dry in preparation for loading Anolon.
ETT 113:	Empty (Cyclohexane) enroute to Corpus to load (Koch 2), via Brown Water VII.
ETT 114:	Empty (Cyclohexane) at Hercules for minor repairs.
ETT 115:	At Hercules for USCG COI.
CCI 75:	Empty (All Oleum) enroute to Rhone-Poulenc.
SCC 106:	Loaded (All Acid) at W/F. Hold at W/F until further notice.
SCC 80:	Empty (All Oleum) at Rhone-Poulenc.
SCC 108:	Empty (All Acid) at Rhone-Poulenc.
SCC 104:	Loaded (All Oleum) at W/F. Hold at W/F until further notice.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 804-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4066

602 Cooper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

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BASF BARGE SCHEDULE

DATE 05-Mar-97 - 11:03 AM

ETT 110: Empty (CPLX) at Hercules for USCG Mid-Term and internal structural exam.

ETT 112: Loaded (Citgo 4) enroute to dock. Barge will need to be gauged and sampled. Will discharge as soon as spotted at dock. Take to W/F after discharge is complete on Low tide 0400 Thursday. Brown Canal will take to Hercules to be cleaned for Anolon Service.

ETT 113: Empty (Cyclohexane) at W/F. Brown Water IV will take to Corpus to load (Koch 2) on 03/07/97.

ETT 114: Empty (Cyclohexane) at W/F. Brown Water VII will take to Hercules Thursday for repairs.

ETT 115: At Hercules for USCG COI.

CCI 75: Empty (All Oleum) at W/F . Hold for Tug Javalina.

SCC 106: Loaded (All Acid) enroute to Freeport. Hold at W/F upon arrival.

SCC 80: Empty (All Oleum) at Rhone-Poulenc.

SCC 108: Empty (All Acid) at Rhone-Poulenc.

SCC 104: Loaded (All Oleum) enroute to Freeport. Hold at W/F upon arrival.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 235-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

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BASF BARGE SCHEDULE

DATE 05-Dec-96 - 12:50 PM

ETT 110: Partially loaded (CPLX 1,922,126 lbs.) at B-1 Wall. Hold until further notice.

ETT 112: Empty (Cyclohexane) at W/F. Brown Water IV will take to Hercules for deballasting, then to Corpus t load (Koch 1).

ETT 113: Discharging (Phillips 2) at dock. Take to W/F after discharge is complete. Brown Canal will take to Phillips to load (Phillips 3) Friday 1000. **# Priority**

ETT 114: Loaded (Citgo 1) enroute to Freeport, via Brown Canal. Hold at W/F until further notice.

ETT 115: Discharging (NBOL) at Stantran. Brown Water IV will take to Hercules to have barge cleaned. Brown Canal will take to Stantran to load (Anolon) after cleaning is complete.

CCI 75: Empty (Acid/Oleum) enroute to Rhone-Poulenc.

SCC 106: Loaded (All Acid). Hold at W/F until further notice.

SCC 80: Loaded (All Oleum) at W/F.Spot at dock after the SCC 104 has completed loading. Will discharge 0730 Friday. *** Priority**

SCC 108: Empty (All Acid) enroute to Rhone-Poulenc.

SCC 104: Empty (All Oleum) at dock. Will load (Spent Acid) today. Take to W/F after loading has been completed. Hold for Tug Javelina. **# Priority**

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

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BASF BARGE SCHEDULE

DATE 16-Dec-96 - 12:16 PM

ETT 110: Empty (CPLX) (33,956 lb. heel on board) at W/F. Brown Canal will take to Hercules to be cleaned and prepared for Cyclohexane Service.

T 112: Empty at Hercules being repaired, surveyed and USCG inspection.

ETT 113: Began loading (Citgo 2) 1100 today at Corpus, via Brown Water IV.

ETT 114: Loaded (Huntsman 1) enroute to Freeport, via Brown Canal. ETA 0600 Tuesday. Spot at dock immediately upon arrival. Barge will need to be gauged and sampled. Will discharge as soon as spotted at dock.
*** Priority 1**

T 115: Empty (Cyclohexane) at W/F. Brown Canal will take to Hercules 0800 Tuesday to be cleaned for Normal Butanol Service.

CCI 75: Empty (Split load Acid/Oleum) at W/F. Hold for Tug Javalina.

SCC 106: Empty (All Acid) at W/F. Hold for Tug Javalina. Barge will be OUT OF SERVICE upon return to Rhone-Poulenc.

C 80: Loaded (All Oleum) at Rhone-Poulenc, Tug Javalina is waiting for weather to calm then will be enroute to Freeport. ETA Approx. 1200 Tuesday. Spot at dock immediately upon arrival. Barge will discharge as soon as spotted at dock. Plant has Critical Low Inventory this barge is to be considered Top Priority upon arrival to Freeport. ***** HOT ***** *** Priority 2**

C 108: Empty (All Acid) at Shipyard for repairs. OUT OF SERVICE.

SCC 104: Loaded (All Acid) at Rhone-Poulenc, Tug Javalina is waiting for weather to calm then will be enroute to Freeport. ETA Approx. 1200 Tuesday. Hold at W/F until further notice.

*** - Priority to dock**
- Priority out to skimmer gate

. - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

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Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

1 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

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BASF WEEKEND BARGE SCHEDULE

DATE 10-Jan-97 - 10:02 AM

ETT 110: Empty enroute to Corpus to load (Citgo 3), via Brown Water IV. Hold at W/F upon return.

ETT 112: Empty at Hercules being cleaned and having Nitrogen pad put on board in preparation for loading Normal Butanol. Spot barge at dock after the ETT 113 has completed discharging Sunday. Barge will load (2,800,000 lbs. of NBOL) Monday 0730. * Priority

ETT 113: Loaded (Citgo 2) enroute to Freeport, via Brown Water VII. ETA Freeport 0600 Saturday. Spot at dock after the ETT 114 has completed discharging. Barge will need to be gauged and sampled. Will discharge 1200 Sunday. Take to W/F after discharge is complete. * Priority 2 / # Priority

ETT 114: Loaded (Phillips 2) at W/F. Spot at dock after the ETT 115 has completed discharging. Barge will need to be gauged and sampled. Will discharge 0730 Saturday. Take to W/F after discharge is complete. Brown Canal will take to Phillips Monday to load (Phillips 3). * Priority 1 / # Priority

ETT 115: Discharging (CPLX) at dock. Take to W/F after discharge is complete. Hold until further notice. # Priority

CCI 75: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority

SCC 106: Loaded (All Acid) at Rhone-Poulenc. ETA Freeport 1300 Saturday. Spot at dock after the SCC 80 has completed dicharging. Will discharge 0730 Monday. * Priority

SCC 80: Loading (All Oleum) at Rhone-Poulenc. ETA Freeport 1300 Saturday. Spot at dock upon arrival. Barge will discharge 1200 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 3 / # Priority

SCC 108: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 104: Loading (All Oleum) at Rhone-Poulenc.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

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BASF WEEKEND BARGE SCHEDULE

DATE 07-Feb-97 - 09:52 AM

ETT 110: Loaded (Citgo 1) enroute to Freeport, via Brown Water VII. ETA Freeport 2400. Spot barge at dock upon arrival. Barge will need to be gauged and sampled. Will discharge 0730 Saturday. Take to W/F after discharge is complete. Brown Water VII will take to Corpus to load (Citgo 2). * Priority 1 / # Priority 3

ETT 112: Loaded (2.8 M lbs. of NBOL) enroute to Stantran, via Brown Water IV. ETA Stantran 1200. Will discharge and return to Freeport. Bring to B-1 Wall on Low tide 0900 Sunday. Spot at dock after the ETT 113 has completed discharging. Barge will need to be gauged and sampled. Will load (2.8 M lbs. of NBOL) 0730 Monday. * Priority 5

ETT 113: Loaded (Koch 1) enroute to Freeport, via Brown Canal. ETA Freeport 1200 Saturday. Spot barge at dock after the ETT 110 has completed discharging. Barge will need to be gauged and sampled. Will discharge 1200 Sunday. Take to W/F after discharge is complete. Brown Canal will take to Phillips to load (Phillips 2) Monday. * Priority 3 / # Priority 5

ETT 114: Discharging (Phillips 1) at dock. Take to W/F after discharge is complete. Brown Water IV will take to Corpus to load (Koch 2). # Priority 1

ETT 115: Empty (CPLX) at Hercules having pipeline repaired and cleaned.

CCI 75: Loaded (All Oleum) enroute to Freeport. ETA 2000. Spot at dock after the SCC 108 has completed discharging. Barge will discharge 1200 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 4 / # Priority 6

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc. Will load and return to Freeport. Spot at dock after the CCI 75 has completed discharging. Barge will discharge 0730 Monday. * Priority 6

SCC 80: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 108: Loaded (All Acid) enroute to Freeport. ETA 2000. Spot barge at dock after the SCC 104 has completed discharging. Barge will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 2 / # Priority 4

SCC 104: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority 2

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

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BASF BARGE SCHEDULE

DATE 18-Feb-97 - 10:12 AM

ETT 110: Partially loaded (CPLX) at B-1 Wait. Hold until further notice.

ETT 112: Empty (Clean) at Hercules for USCG MidTerm and repairs.

ETT 113: Discharging (Chevron 1) at dock. Take to W/F after discharge is complete on Low tide 0400 Wednesday. Brown Water IV will take to Phillips to load (Phillips 3) 0800 Thursday. # Priority

ETT 114: Loaded (Koch 3) enroute to Freeport, via Brown Canal. ETA 1500. Spot at dock after the ETT 113 has completed discharging. Barge will need to be gauged and sampled. Will discharge 1200 Wednesday. * Priority

ETT 115: Empty enroute to Hercules for a Strip, & Blow Dry and Nitrogen pad. Brown Water VII will take to Stantran to load (2.9 M lbs. of NBOL) for shipment to Union Carbide, Seadrift.

CCI 75: Empty (All Oleum) enroute to Rhone-Poulenc. ETA Houston 1500.

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc. ETA Houston 1500.

SCC 80: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority

SCC 108: Loaded (All Acid) at W/F. Spot at dock after the SCC 80 has completed discharging. Barge will discharge 1200 Wednesday. * Priority

SCC 104: Loaded (All Oleum) at Rhone-Poulenc.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

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BASF BARGE SCHEDULE

DATE 24-Feb-97 - 10:00 AM

ETT 110: Partially discharging (CPLX) at dock. Move to B-1 Wall after partial discharge is complete. Hold at B-1 Wall until further notice.

ETT 112: Loaded (Koch 4) enroute to dock. ETA dock 1200. Barge will need to be gauged and sampled. Barge will discharge as soon as spotted at dock. Take to W/F after discharge is complete on Low tide 2200 tonight. Brown Water VII will take to Corpus to load (Citgo 4). * Priority 1 / # Priority 1

ETT 113: Empty (Cyclohexane) at Hercules for USCG COI. Brown Canal will take to Corpus after COI has been completed to load (Koch 5).

ETT 114: Loaded (Citgo 3) enroute to Freeport. ETA 2100. Spot at dock after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Will discharge 0730 Tuesday. * Priority 2

ETT 115: Empty (NBOL) at W/F. Hold until further ntoice.

CCI 75: Empty (All Oleum) enroute to Rhone-Poulenc.

SCC 106: Empty (All Acid) enroute to Rhone-Poulenc.

SCC 80: Loaded (All Oleum) at W/F. Hold until further notice.

SCC 108: Loaded (All Acid) at W/F. Spot at dock after the ETT 110 has completed partially discharging (CPLX). Barge will discharge 0730 Tuesday. * Priority 3

SCC 104: Loading (All Oleum) at Rhone-Poulenc.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 236-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

902 Copper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

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BASF BARGE SCHEDULE

DATE 03-Mar-97 - 09:23 AM

ETT 110: Loaded (2,607,542 lbs. of CPLX) at B-1 Wall. Spot at East End of dock after the CCI 75 has complete discharging. Barge will partially discharge 1800 today. Leave at East End of dock after discharge is complete, until further notice. * Priority 1

ETT 112: Empty (Cyclohexane) enroute to Corpus to load (Citgo 4), via Brown Water VII. ETA Corpus 1200.

ETT 113: Discharging (Chevron 1) at dock. Take to W/F after discharge is complete, on Low tide 0200 Tuesday. Hold at W/F until further notice. # Priority 1

ETT 114: Loaded (Koch 1) enroute to Freeport, via Brown Canal. ETA 1200. Spot at dock after the ETT 113 has completed discharging. Barge will need to be gauged and sampled. Will discharge 0730 Tuesday. * Priority 2

ETT 115: Empty (NBOL) at W/F. Brown Water IV will take to Hercules for USCG COI.

CCI 75: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority 2

SCC 106: Empty (All Acid) at Rhone-Poulenc.

SCC 80: Empty (All Oleum) at Rhone-Poulenc.

SCC 108: Empty (All Acid) at Rhone-Poulenc.

SCC 104: Empty (All Oleum) at Rhone-Poulenc.

* - Priority to dock
\# - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

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BASF BARGE SCHEDULE

DATE 05-Mar-97 - 11:03 AM

ETT 110: Empty (CPLX) at Hercules for USCG Mid-Term and internal structural exam.

ETT 112: Loaded (Citgo 4) enroute to dock. Barge will need to be gauged and sampled. Will discharge as soon as spotted at dock. Take to W/F after discharge is complete on Low tide 0400 Thursday. Brown Canal will take to Hercules to be cleaned for Anolon Service.

ETT 113: Empty (Cyclohexane) at W/F. Brown Water IV will take to Corpus to load (Koch 2) on 03/07/97.

ETT 114: Empty (Cyclohexane) at W/F. Brown Water VII will take to Hercules Thursday for repairs.

ETT 115: At Hercules for USCG COI.

CCI 75: Empty (All Oleum) at W/F . Hold for Tug Javalina.

SCC 106: Loaded (All Acid) enroute to Freeport. Hold at W/F upon arrival.

SCC 60: Empty (All Oleum) at Rhone-Poulenc.

SCC 108: Empty (All Acid) at Rhone-Poulenc.

SCC 104: Loaded (All Oleum) enroute to Freeport. Hold at W/F upon arrival.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Cooper Road, Freeport, Texas 77541 (409) 238-6100

BASF oration

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BASF BARGE SCHEDULE

DATE 06-Mar-97 - 09:49 AM

ETT 110:	Empty (CPLX) at Hercules for USCG Mid-Term and internal structural exam.
ETT 112:	Empty at Hercules being stripped and blown dry in preparation for loading Anoton.
ETT 113:	Empty (Cyclohexane) enroute to Corpus to load (Koch 2), via Brown Water VII.
ETT 114:	Empty (Cyclohexane) at Hercules for minor repairs.
ETT 115:	At Hercules for USCG COI.
CCI 75:	Empty (All Oleum) enroute to Rhone-Poulenc.
SCC 106:	Loaded (All Acid) at W/F. Hold at W/F until further notice.
SCC 80:	Empty (All Oleum) at Rhone-Poulenc.
SCC 108:	Empty (All Acid) at Rhone-Poulenc.
SCC 104:	Loaded (All Oleum) at W/F. Hold at W/F until further notice.

*** - Priority to dock**
 # - Priority out to skimmer gate

 # - All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-6409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

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BASF WEEKEND BARGE SCHEDULE

DATE 07-Mar-97 - 11:11 AM

ETT 110: Empty (CPLX) at Hercules for USCG Mid-Term and Internal structural exam.

ETT 112: Loading Anolon at Hercules from (6) tank trucks. (Approx. 270,000 lbs.). Spot at dock after the ETT 113 has completed discharging. Barge will need to be gauged and sampled. Will load (Anolon) 0730 Sunday. Move to B-1 Wall after loading has been completed. Hold at B-1 Wall until further notice. * Priority 3

ETT 113: Loaded (Koch 2) enroute to Freeport, via Brown Water VII. ETA 0500 Saturday. Spot at dock upon arrival. Barge will need to be gauged and sampled. Will discharge 0730 Saturday. Take to W/F after discharge is complete on Low tide 0600 Sunday. Brown Water VII will take to Port Arthur to load (Huntsman 1).

* Priority 1 / # Priority 1

ETT 114: Empty (Cyclohexane) at Hercules for minor repairs. After repairs are complete, Brown Canal will take to Stantran to load (2.8 M CPLX) Saturday 03/08/97. Spot barge at East End of dock after the SCC 104 has completed discharging. Barge will need to be gauged and sampled. Will partially discharge 0730 Tuesday.

* Priority 5

ETT 115: Empty (Clean) at W/F. Brown Water IV will take to Hercules for Nitrogen pad to be put on board in preparation for loading (2.8 M lbs. of NBOL) at Stantran 0800 Monday for shipment to Eastman on Tuesday.

CCI 75: Empty (All Oleum) at Rhone-Poulenc.

SCC 106: Loaded (All Acid) at W/F. Spot at dock today. Barge will discharge 0730 Saturday. Take to W/F after discharge is complete. Hold for Tug Javalina. * Priority 2 / # Priority 2

SCC 80: Empty (All Oleum) at Rhone-Poulenc.

SCC 108: Empty (All Acid) at Rhone-Poulenc.

SCC 104: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharing. Barge will discharge 0730 Sunday. Take to W/F after discharge is complete. Hold for Tug Javalina.

* Priority 4 / # Priority 3

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Cooper Road, Freeport, Texas 77541 (409) 238-6100

BASF Corporation

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BASF BARGE SCHEDULE

DATE 21-Apr-97 - 11:26 AM

ETT 110: Empty (Clean) at W/F. Brown Water VI will take to Corpus to load (Citgo 3) on 04/24/97.

ETT 112: Empty (Cycloexane) at Hercules being repaired and deballasted. Brown Canal will take to Corpus to load (Koch 5).

ETT 113: Loaded (Koch 4) enroute to Freeport, via Brown Water VI. ETA 2100. Spot at dock upon arrival. Barge will need to be gauged and sampled. Barge will discharge 0730 Tuesday. * Priority

ETT 114: Partially loaded (1,503,532 lbs. of CPLX) at dock. Move to B-1 Wall and hold until further notice.

ETT 115: Empty (Cyclohexane) at Herculews being deballasted. Brown Canal will take to Phillips to load (Phillips 5) at 1300 today. Hold at W/F.

CCI 75: Empty (All Oleum) enroute to Rhone-Poulenc.

SCC 106: Discharging (All Acid) at dock. Take to W/F afetr discharge is complete. Hold for Tug Javalina. # Priority 1

SCC 80: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Tuesday. * Priority 2

SCC 108: Loaded (All Acid) at W/F. Hold until further notice.

SCC 104: Empty (All Oleum) enroute to Rhone-Poulenc.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 23-Apr-97 - 11:31 AM

ETT 110: Empty (Clean) at Rockport. Brown Water VI is having minor maintenance repairs. Will go to Corpus 04/25/97 to load (Citgo 3).

ETT 112: Empty (Cyclohexane) at Rockport for Crew change, via Brown Canal. Will go to Corpus to load (Koch 5) after crew change and return to Freeport.

ETT 113: Empty (Cyclohexane) at W/F. Brown Water IV will take to Hercules for a Strip and Blow Dry, then return to W/F. Hold at W/F until further notice.

ETT 114: Loaded (2.8 M lbs. of CPLX) at B-1 Wall. Hold until further notice.

ETT 115: Discharging (Phillips 5) at dock. Take to W/F after discharge is complete on Low tide 2200 tonight. **# Priority**

CCI 75: Loaded (All Oleum) at Rhone-Poulenc.

SCC 106: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 80: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 108: Loaded (All Acid) at W/F. Spot at dock today. Barge will discharge 0730 Thursday. *** Priority**

SCC 104: Loaded (All Oleum) at Rhone-Poulenc.

*** – Priority to dock**
 # – Priority out to skimmer gate

 # – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 28-Apr-97 - 11:36 AM

ETT 110: Empty (Cyclohexane) enroute to Corpus to load (Koch 6), via Brown Canal. ETA Corpus 0600 Tuesday. Barge dock will not be available until 1600 Tuesday. Barge will load at this time and return to Freeport.

ETT 112: Empty (Cyclohexane) at Hercules being repaired.

ETT 113: Empty (Anolon) enroute to Freeport, via Brown Water IV. Barge will go to Hercules for Hot Chemical Wash.

ETT 114: Loaded (2.8 M lbs. of CPLX) at B-1 Wall. Spot at dock after the ETT 115 has completed discharging. Barge will need to be gauged and sampled. Will partially discharge 0730 Tuesday. * Priority 1

ETT 115: Discharging (Phillips 6) at dock. Take to W/F after discharge is complete on Low tide 0200 Tuesday. Brown Water VI will take to Phillips to load (Phillips 4). # Priority 1

CCI 75: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 106: Discharging (All Acid) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority 2

SCC 80: Loaded (All Oleum) at W/F. Spot at dock after the SCC 106 has completed discharging. Barge will discharge 0730 Tuesday. * Priority 2

SCC 108: Empty (All Acid) at W/F. Hold for Tug Javalina.

SCC 104: Empty (All Oleum) at W/F. Hold for Tug Javalina.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 05-May-97 - 03:46 PM

ETT 110: Empty (Citgo 4) at W/F. Brown Canal will take to Phillips to load (Phillips 7 Carry Over) at 1200 Tuesday. Hold at W/F after loading is complete.

ETT 112: Loaded (Koch 1) enroute to Freeport. ETA 1600. Spot at dock at 1100 Tuesday. DO NOT SPOT BEFORE 1100 TUESDAY DUE TO HOT WORK AT DOCK. Barge will need to be gauged and sampled. Will discharge 1200 Tuesday. * Priority

ETT 113: Empty at Hercules being cleaned for NBOL Service. Nitrogen pad will be put on board Wednesday.

ETT 114: Loaded (2.8 M lbs. of CPLX) at B-1 Wall. Spot at dock on the outside of the ETT 112 at 1100 Tuesday. Barge will need to be gauged and sampled and Bill of Lading put on board. Barge will need to go to W after BOL has been put on board. Brown Water IV will take to Stanlan for discharge.

ETT 115: Discharging (Citgo 5) at dock. Take to W/F after discharge is complete on Low tide 2030. Brown Water VI will take to Hercules to have pump replaced, then to ITC Terminal to load (Phillips-1). # Priority

CCI 75: Loading (All Oleum) at Rhone-Poulenc.

SCC 106: Partially loaded (All Acid) at B-1 Wall. Spot at dock at 1100 Tuesday. Barge will complete dischargir at 1200 Tuesday. * Priority

SCC 80: Discharging (All Oleum) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority

SCC 108: Loaded (All Acid) at W/F. Hold until further notice.

SCC 104: Loading (All Oleum) at Rhone-Poulenc.

* – Priority to dock
\# – Priority out to skimmer gate

\# – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 238 6100

BASF Corporation

BASF

BASF BARGE SCHEDULE

DATE 06-May-97 - 03:29 PM

ETT 110: Loading (Phillips 7 Carry Over) at Freeport, via Brown Canal. Spot at dock after the ETT 112 has completed discharging. Barge will need to be gauged and sampled. Barge will discharge 0730 Wednesday. * Priorit

ETT 112: Discharging (Koch 1) at dock. Take to W/F after discharge is complete on Low tide 2300. Brown Water VI will take to Corpus to load (Koch 2) after returning from ITC. # Priorit

ETT 113: Empty (Cyclohexane) at Texas Barge being cleaned for NBOL Service and Nitrogen pad put on boa Brown Canal will take to Union Carbide, Texas City after crew change Wednesday to load (2.8 M lbs. of NBOL) at 0600 Thursday 05/08/97.

ETT 114: Loaded (CPLX) enroute to W/F. Brown Water IV will take to Stantran for discharge. Barge will go to Hercules for cleaning upon return to Freeport.

ETT 115: Empty (Cyclohexane) at Hercules for pump repair. Brown Water VI will take to ITC Terminal after repairs are complete to load (Phillips 1).

CCI 75: Loaded (All Oleum) enroute to Freeport. ETA 0800 Wednesday. Spot at dock immediately upon arri Barge will discharge as soon as spotted at dock. * Priority

SCC 106: Discharging (All Acid) at dock. Take to W/F after discharge is complete. Hold for Tug Javalina. # Priority

SCC 80: Empty (All Oleum) at W/F. Hold for Tug Javalina.

SCC 108: Loaded (All Acid) enroute to Freeport. ETA 0800 Wednesday. Spot at dock after the CCI 75 has completed discharging. Barge will discharge 2000 Wednesday. * Priority

SCC 104: Loading (All Oleum) at Rhone-Poulenc.

* – Priority to dock
\# – Priority out to skimmer gate

 # – All priority barges taken to dock should go to skimmer gate as soon as possible after work is complete.

For any further information please contact:

Robert G. Peters	Office: 238-6161	Home: 798-4162	Pager: (713) 604-2418
Suzette Johnson	Office: 238-8409	Home: 265-5120	Pager: 237-4016

602 Copper Road, Freeport, Texas 77541 (409) 233-6100

ATTACHMENT 6

Berge Cleaning VALUE

Priority	
1	Hexane To Alcohol - Strip, blow and Dry - Nitrogen Purge
2	Alcohol To Hexane - Hot water Wash, Strip, blow and Dry
3	Hexane To extract - Strip, blow, and Dry
4	Extract To Hexane - Cold water wash, Hot water wash Strip, blow, and Dry
5	Anolon To Hexane - Hot chemical wash, Including Vapor Recovery, Strip, blow, and Dry
6	Hexane To Anolon - Wash over 14 less Than 125 gals Strip, blow, and Dry

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Case:	Hercules
Case Number:	CR-FY97-058
Person Interviewed:	Gerald "J" Brewer, Intertek Testing Services (ITS) Caleb Brett Operations Manager Charlie Bennett, ITS Caleb Brett Inspector
TNRCC Office:	Region 12 - Houston
Location:	ITS Caleb Brett 214 N. Gulf Blvd. Freeport, Texas 77541
Date/Time:	September 9, 1997 / 1:30 pm

On September 9, 1997, TNRCC Special Investigator (SI) Brian Lynch interviewed Gerald Brewer and Charlie Bennett at the Intertek Testing Services, Caleb Brett (ITS) office on Gulf Blvd. Road, Freeport, Brazoria County, Texas. SI Lynch identified himself to Brewer and Bennett as a criminal investigator with the TNRCC.

Brewer and Bennett advised Lynch that they both had done inspections of barges cleaned by Hercules Marine Services Corporation (Hercules) for BASF at the Hercules facility in Freeport. Brewer advised that he has worked at the ITS Freeport office since January 1996, and had conducted barge inspections at Hercules about 20 times. Bennett advised that the has worked at the ITS Freeport office since September 1993, and that he has done numerous barge inspections at Hercules.

Brewer advised that ITS conducts a visual inspection of BASF barges. He advised that BASF hires ITS to conduct these inspection to ensure the barge has been emptied of the material previously contained in the barge. He advised the inspection is merely visual which means that ITS looks into open hatches on the barge to look and see that the barge has been emptied and physically cleaned. He advised that ITS does not review the cleaning procedures used, but that he is sure that BASF gives Hercules barge cleaning procedures to follow.

Lynch asked who contacts ITS to come inspect BASF barges that had been cleaned at Hercules. Brewer advised that Juan Rivera and Larry (LNU) called him to come do BASF barge inspections at Hercules. Brewer also advised that he would review the BASF Barge Schedule and would telephone Larry (LNU) and ask when a specific barge listed on the BASF schedule to be at Hercules being cleaned was going to be ready for inspection. Brewer advised that when he called more often than not, Larry (LNU) would not know when the barge would be ready and he would tell Brewer that he would check on the status. Brewer advised that subsequently either Larry (LNU) or Rivera would call back and tell him when the barge would be ready for

inspection.

Lynch reviewed specific BASF barge work files which ITS maintained at their office. ITS provided copies of the documents maintained in these files (See **attachment 1)** . The files contained the final typed ITS Visual Tank Inspection Report, a hand written version of the report, the job time log, and the Hercules Barge Cleaning Report. Twelve work files on BASF barges that were cleaned during the time period of November 30, 1996 to April 27, 1997, on 11 separate dates were of interest to Lynch. Ten of the 12 barge cleaning reports incorrectly note that Butanol was the cargo cleaned from the vessel when the material cleaned was actually cyclohexane according to BASF records. Eleven of the 12 ITS inspection reports accurately note that cyclohexane was the last cargo carried on the barge. One of the reports mistakenly notes that butanol was the last cargo carried on the barge.

The documents contain the following information:

	DATE	BARGE #	ITS INSPECTOR	HERCULES REP ON VESSEL
1.	11-30-96	ETT110	Nathan Dempsey	not indicated
2.	12-6-96	ETT112	Charlie Bennett	Juan Rivera
3.	12-17-96	ETT115	Nathan Dempsy	Juan Rivera
4.	1-10-97	ETT112	Nathan Dempsy	Juan Rivera
5.	2-9-97	ETT110	Nathan Dempsey	Juan Rivera
6.	2-18-97	ETT115	Gary Carter	Juan Rivera
7.	2-22-97	ETT113	J. Brewer	Juan Rivera
8.	3-6-97	ETT114	J. Brewer	Juan Rivera
	3-6-97	ETT112	Gary Carter	Juan Rivera
9.	4-21-97	ETT112	Charlie Bennet	Juan Rivera
10.	4-23-97	ETT113	Gary Carter	Juan Rivera
11.	4-27-97	ETT112	Charlie Bennett	Juan Rivera

Charlie Bennet advised that he questioned Rivera more than once about the discrepancy between what was the actual last cargo hauled on the barge being inspected versus what Hercules reported on the barge cleaning report. Bennett advised that Rivera indicated that he did not know why the wrong information was written on the barge cleaning report. Bennet advised that it seemed strange to him that Hercules wrote the wrong information on this report. Bennett advised that his contacts at Hercules were Rivera, Claudio(LNU), and Larry (LNU). Bennett advised that when he had noticed these discrepancies at the time he was conducting the inspections, he discussed it with Brewer. Brewer agreed.

Bennett advised that several times over the past three years he observed Larry (LNU) walk on to a BASF barge and talk to Rivera for a short while and then walk off the barge.

Possible contact information for the following was provided:

Nathan Dempsey	pager # (b) (6) [redacted]
Gary Carter &	
Sam Washington	SGS inspection company Deer Park, Texas

PERSONAL INFORMATION

Charlie Bennett
(b) (6) [redacted]
[redacted]
(b) (6) [redacted]
DOB (b) (6) [redacted]
TDL# (b) (6) [redacted]
SS# (b) (6) [redacted]

Gerald Brewer
(b) (6) [redacted]
[redacted]
(b) (6) [redacted]
DOB (b) (6) [redacted]
TDL# (b) (6) [redacted]
SS# (b) (6) [redacted]

Signed: Brian Lynch

Date prepared: September 15, 1997

ATTACHMENT 1

ITS CALEB BRETT BARGE CLEANING
INSPECTION WORK FILE DOCUMENTS

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-110
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: Cyclohexane

Your Reference:
Our Reference: FP/96-2557
Date : November 30, 1996

Tank Number	1C	2C	3C
Tank Coating	N/A	N/A	N/A
Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Second Last Cargo			
Third Last Cargo			
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1540 11/30/96	1540 11/30/96	1540 11/30/96

Method said to have been used to clean tanks: Strip and blow: Stripped chemical from cargo tanks and pipe line, blow dry cargo tanks for 30 minutes each, blow dry pipe line for 20 minutes each valve.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERE

OUR REFERENCE FP/96-2557

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-110	N/A	Hercules	11-30-96

Tank Number	1,2,3c						
Tank Coating	N/A						
Last Cargo	Cyclo						
Second Last Cargo	—						
Third Last Cargo	—						
Time/Date Inspected	1540/11-30-96						
Visual Cleanliness Accepted/Rejected*	accepted						
Reason for Rejection	—						

Method said to have been used to clean tanks:		
	TK#	strip & blow / stripped chemical from cargo tanks & pipeline
	TK#	blow dry cargo tank for 30 min each. blow dry pipeline for 20 min
	TK#	per valve.
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94A

12-2-96 FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE AP/96-2557

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-110	N/A	Hercules	11-30-96

MONTH	DAY	HOUR	EVENT
11	30	1460	inspector notified
		1535	inspector arrived
		1530	commenced barge pre-inspection
		1535	~~completed~~ witnessed cargo liner blown
		1540	completed barge pre-inspection
		1550	final paperwork completed

For Vessel

FOR CALEB BRETT

FORM # 2-044-95

BARGE CLEANING REPORT

JOB NO. 11-3318

BARGE NO. FTT-110

CONTRACT BASF

PRODUCT Cyclohexane

ETA

DATE/TIME ARRIVAL 11-29-96

DATE/TIME STARTED 11-30-96

DATE/TIME COMPLETE

AMOUNT STRIPPED

CLEANING INSTRUCTION BY: Robert Petrie

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: Rivera / Pettit DATE/TIME:

BARGE RELEASED TO: DATE/TIME:

DEEPWELL OPENED: YES N/A NO CLOSED BY NEW CASKET YES NO

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO CLOSED BY NEW CASKET YES

DECK CHECK VALVE OPENED: YES ✓ NO CLOSED BY NEW CASKET YES

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT Yes

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO CLOSED BY Joe

VAPOR RECOVERY HEADER OPENED: YES ✓ NO CLOSED BY Joe NEW CASKET YES ✓ NO

RUST SCALE: YES ✓ NO ✓ WASHED OUT BUCKETED OUT

NUMBER OF CARGO TANKS 1

CONDITION OF CARGO VALVES good

SLOP TANK STRIPPED: YES N/A NO

DRIP PANS STRIPPED: YES ✓ NO

WEATHER: TEMP 60° RAIN ✓ FOG ✓ HUMIDITY OVERCAST CLOUDY CLEAR

PIPELINE WASHED: NO PIPELINE BLOWN INSPECTED BY CALEB BRETT ✓

BOW RAKE CHECKED: YES ✓ NO STERN RAKE: YES ✓ NO

VOIDS: YES ✓ NO SAFETY EQUIPMENT USED:

SIGNED INSPECTED Yes

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put the copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 11/30/96 1625 Time In 1655 Time Out

Inspected By A. Dougherty

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-112
Port/Terminal: HERCULES/FREEPORT, TX
Product/Cargo: N. BUTANOL

Your Reference:
Our Reference: FP/96-2634
Date : 12-10-96

Tank Number	1C	2C	3C
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL
Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Second Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Third Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Visual Cleanliness Accepted *	ACCEPTED	ACCEPTED	ACCEPTED
Visual Cleanliness Rejected *			
Time/Date Inspected	1010 / 12-10-96	1010 / 12-10-96	1010 / 12-10-96

Method said to have been used to clean tanks: ALL CARGO TANKS AND PIPELINES WERE STRIPPED AND BLOWN WITH AIR FOR ONE HOUR EACH

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Bobby Fuller
I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

OUR REFERENCE FP/96-2634

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-112	N-Butanol	~~BASF~~ Hercules-Freeport, TX	12-10-96

Tank Number	1, 2, 3						
Tank Coating	Mild Steel						
Last Cargo	Cyclo						
Second Last Cargo	Cyclo						
Third Last Cargo	Cyclo						
Time/Date Inspected	12-10-96 @ 1010						
Visual Cleanliness Accepted/Rejected*							
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK#1,2,3	Tankout lines were stripped and Blown with Air
	TK#	for 1hr each Tank
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94A

L. Rivera for Hercules

Charles Bennett

FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE FP/96-2634

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-112	N-Butanol	Hercules-Freeport	12-10-96

MONTH	DAY	HOUR	EVENT
12	10	0855	Inspector Notified
		0950	Inspector Arrived
		1000	Commenced Barge Preinspection
		1010	Completed Barge Preinspection
		1020	Paperwork completed

Rivera for Hercules
For Vessel

CB+SW.
FOR CALEB BRETT

FORM # 2-044-95

BARGE CLEANING REPORT

JOB NO. 5327 ETA

BARGE NO. EXT-112 DATE/TIME APPROVAL 12-6-86-6:

CONTRACT BASE DATE/TIME STARTED 12-6-86-7:

PRODUCT N. BUTANOL DATE/TIME COMPLETE 12-6-86-3:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Zuzarte

COMPLETION SCHEDULE BY: Zuzarte

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: Charles Quinta DATE/TIME: 2:30

BARGE RELEASED TO: Brown water IV DATE/TIME:

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY Quanta NEW GASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Dante

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Chas NEW GASKET ____ YES ____ NO ____

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SIGNS TAGGED ____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put the copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF Logistics representative must be contacted.

Inspected 12-10-196 0950 (Time In) 1020 (Time Out)

Inspected by Charles Brett

NO BARGE BEING CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-115
Port/Terminal: HERCULES/FREEPORT
Product/Cargo: CYCLOHEXANE

Your Reference:
Our Reference: FP/96-2672
Date : 12-17-96

Tank Number	1C	2C	3C
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL
Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Second Last Cargo	- - - -	- - - -	- - - -
Third Last Cargo	- - - -	- - - -	- - - -
Visual Cleanliness Accepted *	ACCEPTED	ACCEPTED	ACCEPTED
Time/Date Inspected	12-17-96 @ 1605	12-17-96 @ 1605	12-17-96 @ 1605

Method said to have been used to clean tanks: ALL CARGO TANKS AND PIPELINES WERE STRIPPED OF CHEMICAL AND BLOWN DRY FOR THIRTY MINUTES EACH.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/96-2672

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-115	N/A	Hercules	12-17-96

Tank Number	1,2,3c						
Tank Coating	N/A						
Last Cargo	Cyclo						
Second Last Cargo	N/A						
Third Last Cargo	N/A						
Time/Date Inspected	1605/12-17-96						
Visual Cleanliness Accepted/Rejected*	accepted						
Reason for Rejection	—						

Method said to have been used to clean tanks:	TK#	~~Strip + blow~~
	TK#	Stripped chemical from cargo tanks + blow dry for 30 min per tanks.
	TK#	Stripped chemical from pipeline + blow dry pipeline for 30 min.
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94A

FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE
FP/96-2672

TIME LOG

EL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-115	N/A	Hercules	12-17-96

MONTH	DAY	HOUR	EVENT
12	17	1515	inspector notified
		1550	inspector arrived
		1555	commenced barge pre-inspection
		1600	witnessed cargo lines blown
		1605	completed barge pre-inspection
		1615	final paper work completed

For Vessel

FOR CALEB BRETT

FORM # 2-044-95

BARGE CLEANING REPORT

JOB NO. 53341

BARGE NO. ETT2115

CUSTOMER BASF

PRODUCT CYCLOHEXANE

ETA

DATE/TIME ARRIVAL 12-17-96 2:3

DATE/TIME STARTED 12-17-96 8:0

DATE/TIME COMPLETE 12-17-96 4:2

AMOUNT STRIPPED 350

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: Rhuben Duarte DATE/TIME: 3:30 PM

BARGE RELEASED TO: BROWN CANAL DATE/TIME:

DECKWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Rivera NEW CASKET ____ YES ____ NO ✓

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOOD

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 65 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SIGNS INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put the copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 12/17/96 1550 (Time In) 1620 (Time Out)

Inspected By Nathan Dempsey

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-112
Port/Terminal: HERCULES/FREEPORT, TX
Product/Cargo: NORMAL BUTANOL

Your Reference:
Our Reference: FP/97-5024
Date : 1-10-97

Tank Number	1C	2C	3C
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL
Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Second Last Cargo	- - - -	- - - -	- - - -
Third Last Cargo	- - - -	- - - -	- - - -
Visual Cleanliness Accepted *	ACCEPTED	ACCEPTED	ACCEPTED
Visual Cleanliness Rejected *			
Time/Date Inspected	1355 / 1-10-97	1355 / 1-10-97	1355 / 1-10-97

Method said to have been used to clean tanks: ALL CARGO TANKS & PIPELINES WERE STRIPPED AND ALL TANKS WERE BLOWN FOR THIRTY-FIVE MINUTES EACH, AND VENTED FOR SIX HOURS.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP97-00224

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-112	N/A	Hercules.	1-10-97

Tank Number	1,2,3c						
Tank Coating	N/A						
Last Cargo	Cyclo						
Second Last Cargo	—						
Third Last Cargo	—						
Time/Date Inspected	1355/1-10-97						
Visual Cleanliness Accepted/Rejected*	accepted						
Reason for Rejection	—						

Method said to have been used to clean tanks:		
	TK#	Strip & Blow
	TK#	stripped chemical from pipeline & blew ~~[illegible]~~ line for 1½ hour
	TK#	stripped chemical from cargo tanks & blew tanks for 35 min per tank
	TK#	vented tanks & pipeline for 6 hours
	TK#	
	TK#	STRIPPED TANKS & LINES, BLOW 35 MINS EACH TANK, VENTED 6 HRS
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Bre and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

*. The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94A

L. Rivera for Hercules Marine.

N. Dempsey
FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE
PK97-5024

TIME LOG

SEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-112	N/A	Hercules	1-10-97

MONTH	DAY	HOUR	EVENT
1	10	1315	inspector notified
		1345	inspector arrived
		1350	commenced barge pre-inspection
		1355	witnessed cargo lines blown
		1400	completed barge pre-inspection
		1410	final paperwork completed

For Vessel

FOR CALEB BRETT

FORM # 2-044-95

BARGE CLEANING REPORT

JOB NO. 5359

BARGE NO. EH-112

CUSTOMER BASF

PRODUCT N. BUTANOL

ETA

DATE/TIME ARRIVAL 1-10-96 7:3

DATE/TIME STARTED 1-10-96 8:00

DATE/TIME COMPLETED 1-10-96 4:00

AMOUNT STRIPPED 400

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: Claudio Duarte DATE/TIME: 1:30 PM

BARGE RELEASED TO: Brow Canal DATE/TIME: 4:30 PM

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY Cargo NEW CASKET ____ YES ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Rivera

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Rivera NEW CASKET ____ YES ____ NO ____

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD.

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 70 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SIMPLE INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put the copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 1/10/97 1345 (Time In) 1415 (Time Out)

Inspected By A. Dempsey

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

JOB ORDER FORM

TAKEN BY PHONE/(FAX)/TELEX BY [illegible] FILE # FI/97-5024

TIME 1039 DATE 1/9/97 CUSTOMER ORDER # —

VSL/(BGE)/S.TK/RAILCARS/TK.TRUCK AGENT/TOW CO —

NAME ETT-112 TO — ETA 1/10/97

LOAD/DISCHARGE/LIGHTER/TRANSFER/PIPELINE/PRESAMPLE FACILITY HERCULES

PRODUCT	QUANTITY	+/-	S/TANK
VISUAL			

CUSTOMER PLACING ORDER R. Peters COMPANY BASF

CONTACT NAME R. Peters HOME # 798-4162 OTHER # Pgr 713-604-2418

BILLING INFORMATION

COMPANY	ATTN OF	%	OFFICE #	HOME #	TLX/FAX #
BASF	R. Peters	100%	238-6161	798-4162	266-6728

LAB ANALYSIS Y / N OVERTIME Y / N

APPROVED BY

PRIORITY / ROUTINE / ASAP

REPORT BY PHONE/FAX/TXL

TO:

TESTS REQUIRED:

LINE DISPLACEMENT Y / N SEAL BGE / TK Y / N

SPECIAL INSTRUCTIONS / SAMPLES REQUIRED

INSPECT FOR CLEANLINESS

LAB REVIEW ACCEPTED / REJECTED — OPS REVIEW ACCEPTED / ~~REJECTED~~ [illegible]

J24-93A

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-110
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: 99.9% Cyclohexane

Your Reference:
Our Reference: FP/97-5086
Date : February 9, 1997

Tank Number	1C	2C	3C
Tank Coating	N/A	N/A	N/A
Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Second Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Third Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1850 02/09/97	1850 02/09/97	1850 02/09/97

Method said to have been used to clean tanks: Stripped product from cargo lines and blow dry for 3 hours; stripped product from cargo tanks and blow dry for 1.5 hours.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/97.5086

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-110	N/A	Hercules	2-9-97

Tank Number	1,2,3c						
Tank Coating	N/A						
Last Cargo	cyclo						
Second Last Cargo	↓						
Third Last Cargo	↓						
Time/Date Inspected	2-9-97/1850						
Visual Cleanliness Accepted/Rejected*	accepted						
Reason for Rejection	N/A						

Method said to have been used to clean tanks:	TK#	~~Strip + blow~~
	TK#	Stripped product from cargo lines + blow dry for 3 hours
	TK#	Stripped product from cargo tanks + blow dry for 1½ hours
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Bret and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

X [signature]

[signature]
FOR CALEB BRETT

Form # 2-056-94A

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE FF/97-5036

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
CTT-110	N/A	Hercules	2-9-97

MONTH	DAY	HOUR	EVENT
2	9	1805	inspector notified
		1835	inspector arrived
		1840	commenced barge pre-inspection
		1845	witnessed cargo lines blown
		1850	completed barge pre-inspection
		1900	final paperwork completed

Master Vessel

FOR CALEB BRETT

FORM # 2-044-95

BARGE CLEANING REPORT

JOB NO. _____ ETA _____

BARGE NO. ETT-110 DATE/TIME ARRIVAL 2-9-97 2100

CONTRACT BASF DATE/TIME STARTED 2-9-97 2:30

PRODUCT N-BUTANOL DATE/TIME COMPLETE 2-9-97 7:00

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: C. Duarte DATE/TIME: 6:00 PM

BARGE RELEASED TO: Brow Water IV DATE/TIME: 6:25PM

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY Riverside CASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT _____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ____ YES ____ NO ✓

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD.

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN yes INSPECTED BY CALEB BRETT _____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

SUMP INSPECTED ✓

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NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 2/9/97 1835 (Time In) 1900 (Time Out)

Inspected By A. Dempsey Jr.

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-115
Port/Terminal: HERCULES/FREEPORT
Product/Cargo: N. BUTANOL

Your Reference:
Our Reference: FP/97-5105
Date : 2-18-97

Tank Number	1C	2C	3C
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL
Last Cargo	N. BUTANOL	N. BUTANOL	N. BUTANOL
Second Last Cargo	- - - -	- - - -	- - - -
Third Last Cargo	- - - -	- - - -	- - - -
Visual Cleanliness Accepted *	ACCEPTED	ACCEPTED	ACCEPTED
Time/Date Inspected	2-18-97 @ 1545	2-18-97 @ 1545	2-18-97 @ 1545

Method said to have been used to clean tanks: ALL CARGO TANKS AND PIPELINES WERE STRIPPED ONE HOUR, VENTED FOUR HOURS, AND BLOWN FOR TWO HOURS.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP197-5103 05

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT -115	VISUAL	HERCULES (F.P.)	18 FEB 97

Tank Number	1C	2C	3C				
Tank Coating	SOFT STEEL	SOFT STEEL	SOFT STELL				
Last Cargo	Normal BUTNOL	Normal BUTNOL	Normal BUTNOL				
Second Last Cargo	N/A	N/A	N/A				
Third Last Cargo	N/A	N/A	N/A				
Time/Date Inspected	1545 18FEB97	1545 18FEB97	1545 18FEB97				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	ACCEPTED	ACCEPTED				
Reason for Rejection							

Method said to have been used to clean tanks:	TK# 1C	STRIPPED CARGO TANKS + PIPELINES (1 hr); VENT OUT FOR (4 hr)
	TK# 2C	BLOW CARGO TANKS + PIPE LINES (2 Hr)
	TK# 3C	*NOTE* ALL TANKS AND PIPELINES RECIEVED THE SAME PROCEDURES.
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94A

* Russel L. Rivera for Hercules

Samuel L. Nash Jr.
FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/97-5105

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-115	VISUAL	HERCULES/F.P	02-18-97

MONTH	DAY	HOUR	EVENT
02	18	1530	ARRIVE HERCULES BARGE DOCK ✓
		1535	COMMENCED BARGE INSPECTION ✓
		1545	BARGE INSPECTION COMPLETE ✓
		1555	PAPERWORK COMPLETE ✓

For Vessel

FOR CALEB BRETT U.S.A., INC.

FORM # 2-044-93

BARGE CLEANING REPORT

JOB NO. 5402

BARGE NO. EH2115

CUSTOMER BASF

PRODUCT N-BUTANOL

ETA

DATE/TIME ARRIVAL 2-18-97 10:

DATE/TIME STARTED 2-18-97 11:

DATE/TIME COMPLETED 2-18-97 4:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: [signature]

BARGE RELEASED TO: Brew water VA DATE/TIME: 3:30

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ DATE/TIME: 5:30

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ✓

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT ____ YES ____ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Cruz

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ____ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 70 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: yes PIPELINE BLOWN yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____

SUMP: INSPECTED ✓ SAFETY EQUIPMENT USED:

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 18 FEB/97

1530
Time In

1555
Time Out

Inspected By [signature]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED TO RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THE [illegible]

Inchcape Testing Services
Caleb Brett

JOB ORDER FORM

TAKEN BY PHONE/FAX/TELEX BY _____ FILE # FP97 - ~~5103~~ 5105

TIME _____ DATE 2-19-97 CUSTOMER ORDER # _____

VSL/BGE/S.TK/RAILCARS/TK.TRUCK AGENT/TOW CO _____

NAME ETT-115 TO _____ ETA 2-18-97

LOAD/DISCHARGE/LIGHTER/TRANSFER/PIPELINE/PRESAMPLE FACILITY Hercules

PRODUCT	QUANTITY	+/-	S/TANK
Visual			

CUSTOMER PLACING ORDER R. Peters COMPANY BASF

CONTACT NAME R. Peters HOME # _____ OTHER # _____

BILLING INFORMATION

COMPANY	ATTN OF	%	OFFICE #	HOME #	TLX/FAX #
~~R. Peters~~ BASF	R. Peters		238-6161		

LAB ANALYSIS Y / N OVERTIME Y / N

APPROVED BY _____

PRIORITY / ROUTINE / ASAP

REPORT BY PHONE/FAX/TXL

TO: _____

TESTS REQUIRED: _____

LINE DISPLACEMENT Y / N SEAL BGE / TK Y / N

SPECIAL INSTRUCTIONS / SAMPLES REQUIRED

LAB REVIEW ACCEPTED / REJECTED _____ OPS REVIEW ACCEPTED / REJECTED _____

2-024-93A

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : "ETT-113"
Port/Terminal: HERCULES/FREEPORT, TX
Product/Cargo: 99.9% CYCLOHEXANE

Your Reference:
Our Reference: FP/97-5121
Date : 2-26-97

Tank Number	1C	2C	3C
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL
Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Second Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Third Last Cargo	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE
Visual Cleanliness Accepted *	ACCEPTED	ACCEPTED	ACCEPTED
Visual Cleanliness Rejected *			
Time/Date Inspected	1430 2-26-97	1430 2-26-97	1430 2-26-97

Method said to have been used to clean tanks: ALL CARGO TANKS AND PIPELINES WERE STRIPPED AND BLOWN.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Steve Ramayo
I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE	
OUR REFERENCE	FP/97-5121

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-113	VISMAR	HERCULES	2-26-97

Tank Number	1-CENTER	2-CENTER	3-CENTER				
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL				
Last Cargo	Cyclo	Cyclo	Cyclo				
Second Last Cargo	↓	↓	↓				
Third Last Cargo	↓	↓	↓				
Time/Date Inspected	1430 2/26	1430 2/26	1430 2/26				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	ACCEPTED	ACCEPTED				
Reason for Rejection	—	—	—				

Method said to have been used to clean tanks:		
	TK# 1	STRIPPED & BLOWN
	TK# 2	" "
	TK# 3	" "
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94

Juan I. Luna

FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE EP97-5121

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-113	VISUAL	HERCULES	2-26-97

MONTH	DAY	HOUR	EVENT
2	25	1400	INSPECTOR NOTIFIED
		1415	INSPECTOR ARRIVED
		1435	~~Ba~~ BARGE INSPECTION COMPLETED
		1430	LINES BLOWN
		1435	PAPERWORK COMPLETED
		1450	INSPECTORS DEPARTED

For Vessel

FOR CALEB BRETT

FORM # 2-044-95

Caleb Brett

JOB ORDER FORM

TAKEN BY PHONE/FAX/TELEX BY JB FILE # FP/97 - 5121

TIME 1426 DATE 2-26-97 CUSTOMER ORDER # —

VSL/BGE/S.TK/RAILCARS/TK.TRUCK AGENT/TOW CO —

NAME ETT-113 TO — ETA Now

LOAD/DISCHARGE/LIGHTER/TRANSFER/PIPELINE/PRESAMPLE FACILITY Hercules

PRODUCT	QUANTITY	+/-	S/TANK
VISCAL			

CUSTOMER PLACING ORDER BASF COMPANY R. Peter

CONTACT NAME B. R. PETERS HOME # 798-4162 OTHER # pgr 713-604-2418

BILLING INFORMATION

COMPANY	ATTN OF	%	OFFICE #	HOME #	TLX/FAX #
BASF	R. Peter	100%			

LAB ANALYSIS Y / N OVERTIME Y / N

APPROVED BY

PRIORITY / ROUTINE / ASAP

REPORT BY PHONE/FAX/TXL

TO:

TESTS REQUIRED:

LINE DISPLACEMENT Y / N SEAL BGE / TK Y / N

SPECIAL INSTRUCTIONS / SAMPLES REQUIRED

INSPECT FOR CLEANLINESS

LAB REVIEW ACCEPTED / REJECTED — OPS REVIEW ACCEPTED / REJECTED JB

2-024-93A

JOB NO. _____ BARGE CLEANING REPORT

BARGE NO. Ett-113

CUSTOMER BASF

PRODUCT N. Butanol

ETA _____

DATE/TIME ARRIVAL 2-22-97-6:

DATE/TIME STARTED 2-22-97-7:3

DATE/TIME COMPLETED 2-22-97-3:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: C. Duarte

BARGE RELEASED TO: _____ DATE/TIME: 3:00

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ DATE/TIME: _____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY River NEW GASKET ____ YES ✓

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT ____ YES ____ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT ____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____

SUMPS INSPECTED ✓ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the towboat that is picking up the barge will not be called until inspection is completed and determination is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 2/26/97

Inspected By _____

1415 Time In

1450 Time Out

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-112
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: Anolon

Your Reference:
Our Reference: FP/97-5136
Date : March 6, 1997

Tank Number	1C	2C	3C
Tank Coating	Mild Steel	Mild Steel	Mild Steel
Last Cargo	99.9% Cyclohexane	99.9% Cyclohexane	99.9% Cyclohexane
Second Last Cargo			
Third Last Cargo			
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1410 03/06/97	1410 03/06/97	1410 03/06/97

Method said to have been used to clean tanks: Tanks #1 Center, #2 Center, #3 Center and Lines: Stripped and Blown.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/97-5136

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-112	MTY ANOLON VISUAL	HERCULES	03-06-97

Tank Number	1C	2C	3C				
Tank Coating	MILD STEEL ~~SOFT STEEL~~	MILD ~~SOFT STEEL~~	MILD ~~SOFT STEEL~~				
Last Cargo	99.9% ~~BUTANOL~~	CYCLO HEXANE ~~BUTANOL~~	~~BUTANOL~~				
Second Last Cargo		—	—				
Third Last Cargo		—	—				
Time/Date Inspected	1410 03-6-97	→	→				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	→	→				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1C	STRIPPED + BLOWN
	TK# 2C	STRIPPED + BLOWN
	TK# 3C	STIPPED + BLOWN
	TK# LINES	STRIPPED + BLOWN
	TK#	* NOTE * ALL TANK CLEANED the SAME *
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94

for Hercules

FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-114
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: Caprolactam Extract

Your Reference:
Our Reference: FP/97-5145
Date : March 7, 1997

Tank Number	1C	2C	3C
Tank Coating	Mild Steel	Mild Steel	Mild Steel
Last Cargo	99.9% Cyclohexane	99.9% Cyclohexane	99.9% Cyclohexane
Second Last Cargo			
Third Last Cargo			
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1825 03/07/97	1825 03/07/97	1825 03/07/97

Method said to have been used to clean tanks: Tanks #1 Center, #2 Center, #3 Center and Lines: Stripped and Blown.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/97-5145

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-114	CAPROLACTAM EXTRACT	HERCULES	3/7/97

Tank Number	1 CENTER	2 CENTER	3 CENTER				
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL				
Last Cargo	99.9% CYCLO	99.9% CYCLO	99.9% CYCLO				
Second Last Cargo	–	–	–				
Third Last Cargo	–	–	–				
Time/Date Inspected	1825 3/7/97	1825 3/7/97	1825 3/7/97				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	ACCEPTED	ACCEPTED				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1 C	STRIPPED & BLOWN
	TK# 2 C	STRIPPED & BLOWN
	TK# 3 C	STRIPPED & BLOWN
	TK# LINES	STRIPPED & BLOWN
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

* [signature] for Hercules

[signature]
FOR CALEB BRETT

Form # 2-056-94

ıchcape Testing Services

Caleb Brett

TIME LOG

YOUR REFERENCE	
OUR REFERENCE	F#/97-5145

	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-114	~~VISUAL~~ CAPROLACTAM EXTRACT	HERCULES	3/7/97

ONTH	DAY	HOUR	EVENT
ARCH	7	1720	INSPECTOR NOTIFIED
		1800	INSPECTOR ARRIVED
		1810	COMMENCED INSPECTION
		1825	COMPLETED INSPECTION - ALL LINES BLOWN
		1835	INSPECTOR DEPARTED

ıet

FOR CALEB BRETT U.S.A., INC.

12-044-93

BARGE CLEANING REPORT

JOB NO. 5430

BARGE NO. Ettelin

CONTRACTOR BASF

PRODUCT N-Butanol

ETA

DATE/TIME ARRIVAL 3-6-97-10

DATE/TIME STARTED 3-6-97-3:30

DATE/TIME COMPLETE 3-6-97-8

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: C. DeArte DATE/TIME: 3-6-97-7:30

BARGE RELEASED TO: Brown Water IV DATE/TIME:

DECKWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ____ YES ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ✓ YES ____ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES ✓ NO ____

DRIP PANS STRIPPED: YES ____ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ✓ CLEAR ✓

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SUMP INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put the copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 3/7/97 1800 Time In 1835 Time Out

Inspected By [signature]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Acncape Testing Services

Caleb Brett

JOB ORDER FORM

KEN BY PHONE/~~FAX/TELEX~~ BY [illegible] FILE # FP/97-5145

TIME 1720 DATE 3/7/97 CUSTOMER ORDER # —

VSL/BGE/S.TK/RAILCARS/TK.TRUCK AGENT/TOW CO —

NAME ETT-114 TO — ETA Now

LOAD/DISCHARGE/LIGHTER/TRANSFER/PIPELINE/PRESAMPLE FACILITY Hercules

PRODUCT	QUANTITY	+/-	S/TANK
V/SWAC			

CUSTOMER PLACING ORDER Richard COMPANY Hercules

CONTACT NAME R. Peters HOME # 798-4162 OTHER # pgr 713-406-2618 604-2418

BILLING INFORMATION

COMPANY	ATTN OF	%	OFFICE #	HOME #	~~TLX~~/FAX #
BASF	R. Peters	100%	238-6161	798-4162	266-6728

LAB ANALYSIS Y / N OVERTIME Y / N

APPROVED BY

PRIORITY / ROUTINE / ASAP

REPORT BY PHONE/FAX/TXL

TO:

TESTS REQUIRED:

LINE DISPLACEMENT Y / N SEAL BGE / TK Y / N

SPECIAL INSTRUCTIONS / SAMPLES REQUIRED

INSPECT BARGE FOR CLEANLINESS

LAB REVIEW ACCEPTED / REJECTED —

OPS REVIEW ACCEPTED / ~~REJECTED~~ [illegible]

024-93A

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE	
OUR REFERENCE	FP/97-5136

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-112 & ETT-115	MTT VISUAL	HERCULES	3-06-97

MONTH	DAY	HOUR	EVENT
03	06	1400	Inspector arrived for visual
		1410	Started Barge Insp. ETT-112
		1420	Finished ETT-112 Inspection.
		1425	Started Barge Inspection ETT-115
		1435	Completed Barge visual Inspection ETT-115
		1445	Paper work complete.

3-7-97

For Vessel

FOR CALEB BRETT U.S.A., INC.

SOPM 6.2.011.02

BARGE CLEANING REPORT

JOB NO. 5419

BARGE NO. ETC-115

CUSTOMER BASF

PRODUCT N-Butanol

ETA

DATE/TIME ARRIVAL 3-3-87 7:45

DATE/TIME STARTED 3-3-87 7:15

DATE/TIME COMPLETE 3-4-87

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: Claudio Duarte

BARGE RELEASED TO: Brow Canal DATE/TIME:

DEEPWELL OPENED: YES N/A NO ___ CLOSED BY ___ DATE/TIME:

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ___ CLOSED BY ___ NEW CASKET ___ YES ___ NO ___

DECK CHECK VALVE OPENED: YES N/A NO ___ CLOSED BY ___ NEW CASKET ___ YES ___

DECK HEADER BLINDS OPEN: YES INSPECTED BY CALEB BRETT ___ YES ___ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ___ CLOSED BY Rivera

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ___ CLOSED BY Rivera NEW CASKET ___

RUST SCALE: YES ✓ NO ___ WASHED OUT ___ BUCKETED OUT ___ YES ___ NO ✓

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO ___

DRIP PANS STRIPPED: YES ✓ NO ___

WEATHER: TEMP 65 RAIN ___ FOG ___ HUMIDITY ___ OVERCAST ___ CLOUDY ___ CLEAR ___

PIPELINE WASHED: no PIPELINE BLOWN YES INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ___ STERN RAKE: YES ✓ NO ___

VOIDS: YES ✓ NO ___

SUMP INSPECTED ✓ SAFETY EQUIPMENT USED:

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Barculan foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 03/06/87

1400 Time In

1450 Time Out

Inspected By [signature] FTS/Caleb Brett

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT INSPECTED OR RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS REPORT.

JOB NO. _____ BARGE CLEANING REPORT

BARGE NO. ETT-112

CUSTOMER BASF

PRODUCT N-Butanol

ETA _____

DATE/TIME ARRIVAL 3-6-97-8:3

DATE/TIME STARTED 3-6-97-9:0

DATE/TIME COMPLETE 3-6-97-2:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: C. Duarte

BARGE RELEASED TO: _____ DATE/TIME: 1:30 PM

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ DATE/TIME: _____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASES

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASES NEW GASKET ____ YES ____ NO ____

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 65 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____

SUMP INSPECTED _____ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 03/06/97

Inspector By _____

1400 Time In

1450 Time Out

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT INSPECTED & RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS REPORT.

Inchcape Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-115
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: Anolon

Your Reference:
Our Reference: FP/97-5136
Date : March 6, 1997

Tank Number	1C	2C	3C
Tank Coating	Mild Steel	Mild Steel	Mild Steel
Last Cargo	Normal Butanol	Normal Butanol	Noraml Butanol
Second Last Cargo			
Third Last Cargo			
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1425 03/06/97	1425 03/06/97	1425 03/06/97

Method said to have been used to clean tanks: Tanks #1 Center, #2 Center, #3 Center and Lines: Stripped and Blown.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/97-5136

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-115	~~MTY~~ ANOLEN VISMAR	HERCULES	03-06-97

Tank Number	1C	2C	3C				
Tank Coating	MILD ~~SOFT~~ Steel	MILD ~~SOFT~~ Steel	MILD ~~SOFT~~ Steel				
Last Cargo	NORMAL BUTANOL	NORMAL BUTANOL	NORMAL BUTANOL				
Second Last Cargo							
Third Last Cargo							
Time/Date Inspected	03-06-97 1425	03-6-97 1425	03-6-97 1425				
Visual Cleanliness ~~Accepted~~/Rejected*	ACCEPTED	Accepted	Accepted				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1C	STRIPPED & BLOWN
	TK# 2C	STRIPPED + BLOWN
	TK# 3C	STRIPPED & BLOWN
	TK# LINES	STRIPPED + BLOWN
	TK#	~~*NOTE* ALL TANKS CLEANED THE SAME~~
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94

Rivera Hercules

FOR CALEB BRETT

Intertek Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-112
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: Normal Butanol

Your Reference:
Our Reference: FP/97-5220
Date : April 21, 1997

Tank Number	1C	2C	3C
Tank Coating	Mild Steel	Mild Steel	Mild Steel
Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Second Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Third Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1910 04/21/97	1910 04/21/97	1910 04/21/97

Method said to have been used to clean tanks: Tanks #1 Center, #2 Center, #3 Center and Lines: Stripped and blown dry.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Bobby Fuller
I T S-Caleb Brett

Intertek Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT / TERMINAL	DATE
ETT-112	~~99.9% Cyclohexane~~ N-Butanol	Hercules-Freeport, Tx	4-21-97

Tank Number	1,2,3center						
Tank Coating	Mild Steel						
Last Cargo	Cyclo						
Second Last Cargo	Cyclo						
Third Last Cargo	Cyclo						
Time/Date Inspected	4:21 97 @ 910						
Visual Cleanliness Accepted/Rejected*							
Reason for Rejection							

Method said to have been used to clean tanks:	TK#1,2,3C	ALL TANKS AND LINES were stripped + Blown Dry
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-97

S. Rivera

CB-4-22-97

Charlie Benoit
FOR CALEB BRETT

Visual.112

Intertek Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

TIME LOG

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT/TERMINAL	DATE
ETT-112	~~99.9% Cyclohexane~~ N-Butanol	Hercules-Freeport	4-21-97

MONTH	DAY	HOUR	EVENT
4	21	1826	Inspector Notified
		1900	Inspector Arrived
		1905	Commenced Barge Inspection
		1915	Completed Barge Inspection
		1920	Paperwork completed

For Vessel

FOR CALEB BRETT

BARGE CLEANING REPORT

JOB NO. 4-5488

BARGE NO. KTT-112

CUSTOMER GAF

PRODUCT Normal Butanal

ETA 0800

DATE/TIME ARRIVAL 4-21-97/0700

DATE/TIME STARTED 4-21-97/0800

DATE/TIME COMPLETE 4-21-97/1900

AMOUNT STRIPPED _____

CLEANING INSTRUCTION BY: Suzette

COMPLETION SCHEDULE BY: Suzette

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: Charlie DATE/TIME: 4-21-97/19:00

BARGE RELEASED TO: Brown Water IV DATE/TIME: _____

DECKWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____

DECK CHECK VALVE OPENED: YES ✓ NO ____ CLOSED BY Juan NEW GASKET ✓ YES ____ NO

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT ✓

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Juan

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Juan NEW GASKET ____ YES ✓ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80° RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ____ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN yes INSPECTED BY CALEB BRETT _____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

SIMOP INSPECTED yes

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 4 / 21 / 97 1900 (Time In) 1920 (Time Out)

Inspected By Charlie Bennett - Caleb BRETT

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Intertek Testing Services
Caleb Brett

JOB ORDER FORM

KEN BY PHONE/FAX/TELEX BY ~~1830~~ C.B FILE # FP97-5220

TIME 1830 DATE 4-21-97 CUSTOMER ORDER #

VSL/BGE/S.TK/RAILCARS/TK.TRUCK AGENT/TOW CO

NAME ETT-112 TO ETA 4-21-97 @ 1830

LOAD/DISCHARGE/LIGHTER/TRANSFER/PIPELINE/PRESAMPLE FACILITY Hercules

CUSTOMER PRODUCT DESCRIPTION	QUANTITY	+/-	S/TANK
Visual			

CUSTOMER PLACING ORDER R. Peter COMPANY BASF

CONTACT NAME R. Peters HOME # 798-4162 OTHER #

BILLING INFORMATION

COMPANY	ATTN OF	%	OFFICE #	HOME #	TLX/FAX #
BASF	R. Peters	100	238-6161	798-4162	

LAB ANALYSIS Y / N OVERTIME Y / N

APPROVED BY

PRIORITY / ROUTINE / ASAP

REPORT BY PHONE/FAX/TXL

TO:

TESTS REQUIRED:

LINE DISPLACEMENT Y / N SEAL BGE / TK Y / N

SPECIAL INSTRUCTIONS / SAMPLES REQUIRED

Visual

LAB REVIEW ACCEPTED / REJECTED OPS REVIEW ACCEPTED / REJECTED C.B

Intertek Testing Services
Caleb Brett

VISUAL TANK INSPECTION REPORT

Vessel : ETT-113
Port/Terminal: Hercules Shipyard / Freeport, Texas
Product/Cargo: Normal Butanol

Your Reference:
Our Reference: FP/97-5223
Date : April 23, 1997

Tank Number	1C	2C	3C
Tank Coating	Mild Steel	Mild Steel	Mild Steel
Last Cargo	Cyclohexane	Cyclohexane	Cyclohexane
Second Last Cargo			
Third Last Cargo			
Visual Cleanliness Accepted *	Accepted	Accepted	Accepted
Visual Cleanliness Rejected *			
Time/Date Inspected	1845 04/23/97	1845 04/23/97	1845 04/23/97

Method said to have been used to clean tanks: Tanks #1 Center, #2 Center and #3 Center: Stripped and blown dry.

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

I T S-Caleb Brett

Intertek Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP97-5223

VISUAL TANK INSPECTION REPORT

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT / TERMINAL	DATE
ETT-113	VISUAL	Hercules	04-23-97

Tank Number	1C	2C	3C				
Tank Coating	~~SOFT~~ mild STEEL	~~SOFT~~ mild STEEL	~~SOFT~~ mild STEEL				
Last Cargo	~~Butanol~~ cyclo	~~butanol~~ cyclo	~~Butanol~~ cyclo				
Second Last Cargo							
Third Last Cargo							
Time/Date Inspected	1845/4/23/97	1845/4/23/97	1845/4/23/97				
Visual Cleanliness Accepted/Rejected*	ACC.	ACC.	ACC.				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1	STRIPPED & BLOWN DRY
	TK# 2	STRIPPED & BLOWN DRY
	TK# 3	STRIPPED & BLOWN DRY
	TK#	
	TK#	* ALL TANK CLEANED the SAME *
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-97

FOR CALEB BRETT

Intertek Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP97-5223

TIME LOG

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT/TERMINAL	DATE
GTT-113	VISUAL	HERCULES	04-23-97

MONTH	DAY	HOUR	EVENT
April	23	1730	INSP. NOTIFIED THE NOTICE
		1830	INSP. ARRIVED HERCULES MARINE
		1830	STARTED VISUAL INSP.
		1845	FINISHED VISUAL INSP.
		1900	PAPERWORK COMPLETED

For Vessel

FOR CALEB BRETT

JOB NO. 54920 ETA

BARGE NO. ETI-113 DATE/TIME ARRIVAL 4-23-97-1

CUSTOMER BASF DATE/TIME STARTED 4-23-97 13

PRODUCT N. BUTANOL DATE/TIME COMPLETED 4-23-97

DISPOSAL AMOUNT AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters BY:

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: [illegible] DATE/TIME: 6:30

BARGE RELEASED TO: Brown Water IV DATE/TIME:

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ____ NO ____

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

[illegible] OF CARGO VALVES Good

[illegible] LINE STRIPPED: YES N/A NO ____ PIPE PRESSURE TEST DATE: ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ____

PIPELINE WASHED: NO PIPELINE BLOWN YES PIPELINE SUMPS INSPECTED ____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

WOODS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The forman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected April 23 1997 1830 Time In 1960 Time Out

Inspected By [signature]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Intertek Testing Services
Caleb Brett VISUAL TANK INSPECTION REPORT

Vessel : ETT-112
Port/Terminal : HERCULES SHIPYARD
Product/Cargo : 99.9% CYCLOHEXANE

Your Ref :
Our Ref : FP/97-5235
Date : 05/02/97

Tank No.	Tank Coating	Last Cargo	Second Last Cargo	Third Last Cargo	Date	Time	Accept/ Reject (*)	Reason For Rejection
1	Mild Steel	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE	05/02/97	17:35	A	
2	Mild Steel	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE	05/02/97	17:35	A	
3	Mild Steel	CYCLOHEXANE	CYCLOHEXANE	CYCLOHEXANE	05/02/97	17:35	A	

Method Said To Have Been Used To Clean Tanks:

All cargo tanks and pipelines were stripped and blown dry.

Information regarding previous cargoes, tank coatings, and cleaning methods was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett, and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge, or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of coating.

I T S - Caleb Brett

Intertek Testing Services
Caleb Brett

YOUR REFERENCE	
OUR REFERENCE	FP197-5235

VISUAL TANK INSPECTION REPORT

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT / TERMINAL	DATE
ETT-112	99.9% Cyclohexane	Hercules - Freeport, TX	5-2-97

Tank Number	123 center						
Tank Coating	Mild Steel						
Last Cargo	cyclo						
Second Last Cargo	cyclo						
Third Last Cargo	Cyclo						
Time/Date Inspected	5-2-97 0735						
Visual Cleanliness Accepted/Rejected*							
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK#123	ALL Tank and lines were stripped and Blown dry.
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-97

FOR CALEB BRETT

Intertek Testing Services
Caleb Brett

TIME LOG

YOUR REFERENCE	
OUR REFERENCE	FP/97-5235

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT/TERMINAL	DATE
ETT-112	99.9% Cyclohexane	Hercules-Freeport	5-2-97

MONTH	DAY	HOUR	EVENT
5	2	1650	Inspector Notified
		1720	Inspector Arrived
		1725	Commenced Barge Preinspection
		1735	Completed Barge Preinspection
		1740	Paperwork complete

For Vessel

FOR CALEB BRETT

FORM # 2-044-97

JOB NO. _____ ETA _____

BARGE NO. Ett-112 _____ DATE/TIME ARRIVAL 4-27-97 8:

CUSTOMER BASF _____ DATE/TIME STARTED 4-27-97 8:3

PRODUCT N Butanol Cyclohexane DATE/TIME COMPLETED 4-27-97

DISPOSAL AMOUNT 250 AMOUNT STRIPPED 250

CLEANING INSTRUCTION BY: Robert Peters BY: _____

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: DuPyte DATE/TIME: _____

BARGE RELEASED TO: _____ DATE/TIME: _____

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ____ NO ✓

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO

DECK HEADER BLINDS OPEN: YES ✓ NO ____ CLOSED BY Casas NEW GASKET ✓ YES ____ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Casas

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ✓ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

NUMBER OF DRAIN VALVES Gud

[illegible] TANK STRIPPED: YES N/A NO ____ PIPE PRESSURE TEST DATE: _____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ✓ FOG ____ HUMIDITY ✓ OVERCAST ____ CLOUDY ____ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN yes PIPELINE SUMPS INSPECTED ✓

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The forman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 5/12/97 1720 Time In 1740 Time Out

Inspected By Charlei Bennett - Caleb BRETT

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

Intertek Testing Services
Caleb Brett

JOB ORDER FORM

TAKEN BY PHONE/FAX/TELEX BY BF FILE # FP97-5235

TIME 10:09 A.M DATE 4-29-97 CUSTOMER ORDER #

VSL/BGE/S.TK/RAILCARS/TK.TRUCK AGENT/TOW CO

NAME ETT-112 TO ETA

LOAD/DISCHARGE/LIGHTER/TRANSFER/PIPELINE/PRESAMPLE FACILITY Hercules

CUSTOMER PRODUCT DESCRIPTION	QUANTITY	+/-	S/TANK
Visual Inspection			

CUSTOMER PLACING ORDER R. Peters COMPANY BASF

CONTACT NAME R. Peters HOME # 798-4162 OTHER #

BILLING INFORMATION

COMPANY	ATTN OF	%	OFFICE #	HOME #	~~TLX/FAX #~~ PAGER
BASF	R. Peters	100	238-6161	798-4162	713-604-2419

LAB ANALYSIS Y / N OVERTIME Y / N

APPROVED BY

PRIORITY / ROUTINE / ASAP

REPORT BY PHONE/FAX/TXL

TO:

TESTS REQUIRED:

LINE DISPLACEMENT Y / N SEAL BGE / TK Y / N

SPECIAL INSTRUCTIONS / SAMPLES REQUIRED

Visual Inspection

LAB REVIEW ACCEPTED / REJECTED OPS REVIEW ACCEPTED / REJECTED JD

Texas Natural Resource Conservation Commission
Special Investigations
STATEMENT

THE STATE OF TEXAS

County of Brazoria Case Number: CR-FY97-058

I, Claudio Gomez Duarte, being first duly sworn according to law, depose and say:

DRAFT

I have been advised by _____ of _____, that, under the provisions of the Constitution, I cannot be compelled to be a witness against myself; and, knowing that anything I say may be used against me, I wish to make the following statements of my own free will and accord, without coercion or threats and without promise of immunity.

This statement is a voluntary act on my part, prompted by my decision to tell the facts, and I do not expect to gain any reward or special consideration by reason of having made this statement.

[redacted] I have worked at Hercules Marine Services (Hercules) as the Cleaning Superintendent for about three years. I supervise the crews that clean barges at Hercules. Since about may 1997, my boss at Hercules has been Jimmy Jackson. Before that and in 1996,my boss was Larry Ballinger. Larry was the boss over everyone there at Hercules. My duties included filling out a barge cleaning report. The information I wrote down on the barge cleaning report included the barge number, the chemical product cleaned out of the barge, and the date the barge was cleaned. When a barge came to the Hercules dock I would go to the dock and check on the barge. When the barge came in Larry Ballinger would also come out and check on it. Larry wanted to know what product was in the barge and how much of the product was left in the barge.I would open the hatches on the barge. From my experience at Hercules I could tell by the odor what product was on the barge and I could look in the barge cargo tanks and tell approximately how much material was left in the barge. I would tell Larry what product was on the barge and how much was left. I remember several times I told Larry the barge

DRAFT

Texas Natural Resource Conservation Commission
Special Investigations
STATEMENT CONCLUSION

Statement of Claudio Gomez Duarte
Case Number: CR-FY97-058

Date: _____

contained cyclohexane and Larry told me do not write down cyclohexane on the barge cleaning report. He told me to write down the chemical name butanol instead of cyclohexane. Larry told me and Juan Rivera more than once that if a cyclohexane barge comes in, do not write down cyclohexane on the barge report, but instead, write down butanol.

I have read the foregoing statement and I have been given an opportunity to make corrections. All of the facts contained herein are true to the best of my knowledge.

DRAFT

Sworn to before me this _____ day (Signed) _____
of _____ , 19_____ .

Signed: _____
(Law Officer)

Witnessed: _____

Texas Natural Resource Conservation Commission
Special Investigations
ADVICE OF RIGHTS — NONCUSTODIAL

THE STATE OF TEXAS

County of _____

I, _____, have been first duly warned by

_____
(Name & Title of Investigator giving rights)

at_____(A.M./ P.M.), on the _____ day of _____,19___, at _____

_____, Texas, of the
(Location/Address)

following rights:

1. I HAVE THE RIGHT TO REMAIN SILENT AND NOT MAKE ANY STATEMENT AT ALL AND THAT ANY STATEMENT I MAKE MAY BE USED AGAINST ME AT MY TRIAL;

2. ANY STATEMENT I MAKE MAY BE USED AS EVIDENCE AGAINST ME IN COURT;

3. I HAVE THE RIGHT TO HAVE A LAWYER PRESENT TO ADVISE ME PRIOR TO AND DURING ANY QUESTIONING;

4. I HAVE THE RIGHT TO TERMINATE THE INTERVIEW AT ANY TIME.

I have read the above rights and have had the same explained to me and do knowingly, intelligently and voluntarily waive the rights as set out above. I do hereby freely and voluntarily, without being induced by any compulsion, threats, promises or persuasion, want to talk to an investigator.

My name is _____ and I am _____ years of age. I was born in _____ and at present I consider the following address my home _____.

My Drivers License Number is _____.

_____	_____
SIGNATURE	WITNESS
_____	_____
INVESTIGATOR	WITNESS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Witness Narrative Statement

City of Freeport State of Texas

Date: September 22, 1997 Case Number: CR-FY97-058

OFFICE OF ENFORCEMENT

I, Juan Rivera, make this statement as a voluntary act on my part, prompted by my desire to tell the facts, and I do not expect to gain any reward or special consideration by reason of having made this statement.

I am [redacted] and reside at [redacted] I have worked at Hercules Marine Services for about 18 years since 1979. My duties at Hercules have been washing tanks and pipelines on barges. My duties included blowing the lines to make sure they were empty when I accompanied the Caleb Brett inspectors who were conducting visual inspections to make sure there was no chemical or liquid in the line or cargo tank. I would make copies of the barge cleaning report for the Caleb Brett inspectors. Also I would make copies of the Caleb Brett Time Log and Inspection Report for Hercules. I made these copies in the office at Hercules after Caleb Brett inspectors finished their inspection. I noticed sometimes the cleaning reports showed Normal Butanol when the chemical that had been on the barge was cyclohexane. I signed an Employee Hazardous Materials Training Program document for each barge that I helped clean. When we would have a meeting and discuss the chemical to be cleaned from the barge. I noticed that there were times when we would open the barge and it contained a different chemical than we had just discussed in

 J.K. CID Form: 05a (11/1/92)

Printed on Recycled Paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

Witness Statement Conclusion

Statement of Juan Rivera Case Number: _____
OFFICE OF ENFORCEMENT

the meeting I recall that normal butanol was written on the document but I found cyclohexane on the barge. I recall one time Claudio Duarte told me to tell Caleb Brett the chemical on the barge was normal butanol instead of cyclohexane. I knew the barge really had contained cyclohexane because I had cleaned it. Claudio told me that JKR Harry Ballinger told him to say the barge had last contained Normal Butanol instead of cyclohexane I asked Special Investigator Brian Lynch to write this statement for me but the words and content of this statement are my own.

I have read the foregoing statement and I have been given an opportunity to make corrections. All of the facts contained herein are true to the best of my knowledge.

Date: September 22, 1997 (Signed) Juan J. Rivera

Brian Lynch Witnessed: Andrew Yee
~~Special Agent, EPA/CID~~ Special Investigator, INRCC SPECIAL AGENT, U.S. EPA.

Page 2 of 2 Pages CID Form: 05c (11/1/92)

PERSONAL HISTORY SHEET

1. NAME: Rivera, Juan, Luis
(LAST, FIRST, MIDDLE) on SS card

2. ALIASES, AKA: Johnny or John

3. HOME ADDRESS: (b) (6) [redacted]

4. TELEPHONE NUMBER: (b) (6) [redacted]

5. DATE OF BIRTH: (b) (6) [redacted] 6. CITIZENSHIP US

7. PLACE OF BIRTH Port Lavaca, TX 8. RACE/SEX M

9. SOCIAL SECURITY NUMBER: (b) (6) [redacted]

10. DRIVERS LICENSE NUMBER/STATE: (b) (6) [redacted]

11. HEIGHT/WEIGHT: 5'11" / 200 lb 12. HAIR COLOR/EYE COLOR: grey/black hair / brown

13. EMPLOYER: Hercules Marine Service

14. BUSINESS ADDRESS: 906 Marlin Drive
Freeport TX

15. TELEPHONE NUMBER: (409) 233 6371

16. POSITION: Lead Man - barge cleaning crew

17. LENGTH OF EMPLOYMENT: 18 years

18. POSITION/RESPONSIBILITIES: barge cleaning

19. PROFESSIONAL CERTIFICATION/LICENSES:

OFFICIAL USE ONLY

Environmental Protection Agency
Criminal Investigation Division

BASF Corporation

BASF

BASF BARGE SCHEDULE FOR HERCULES

March 06, 1997

ETT 114 – Contact McGill, they were suppose to build a mount replacement for the pump to sit on. Weld to new mount so that the pump will sit even. Check entire barge for any other repairs (large or small) that may be needed. Mailbox, motor cover, give the barge a thorough going over. 3-5430

ETT 112 – Strip and blow dry in preparation for loading Anolon. 3-5431

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

LINES
3108 Central Dr. • Plant City, FL 33567
(813) 754-4725

SCHEDULED DELIVERY DATE	SCHEDULED DELIVERY TIME	
3/7/97	8:30 AM	7740
3/7/97	ASAP	7993

SHIPPER:	PICKUP POINT	SHIPPER NUMBER
BASF - BIK - 1100	Freeport, Texas	2199913
CONSIGNEE:	**DELIVERY POINT**	**CONSIGNEE NUMBER**
Hercules	Freeport, Texas	

PICKUP TIMES	WEIGHTS	CMP.	QUANTITY	HAZ. MAT. (✓)	COMMODITY DESCRIPTION
ACTUAL PICKUP DATE 3/7/97	GROSS WEIGHT 74560	1		X	RQ Cyclohexane mixture
ACTUAL PICKUP TIME (AM) 8:05 PM	TARE WEIGHT 30240	2			3 UN 1915 PG III
START LOADING (AM) 10:30 PM	NET WEIGHT 44320	3			
FINISH LOADING AM (PM) 12:15	TRAILER # SK-722	4			
TOTAL TIME LOADING 1½ hrs		5			

TRACTOR # S-846
DRIVER # SK-1131

DELIVERY TIMES

ACTUAL DATE DELIVERY 3/7/97
ACTUAL TIME DELIVERY AM 12:30 (PM)
START UNLOADING (AM) 2:00 PM
FINISH UNLOADING AM PM
TOTAL TIME UNLOADING

TRACTOR # S-846
DRIVER # SK-1131

IS THERE DEMURRAGE ON THE LOAD? (CIRCLE) YES NO
IF YES, SEE DEMURRAGE FORM

IN CASE OF: LEAK, SPILL, FIRE, OR OTHER EMERGENCY

CALL TOLL FREE

CHEMTREC

1-800-424-9300

MONTGOMERY TANK LINES

24 Hour

EMERGENCY RESPONSE Phone Number

1-800-759-8265

PLANT CITY, FL

UNLOADING AUTHORIZATION

Consignee:

The shipper of the product and Montgomery Tank Lines have developed the following procedure to insure that the product you ordered is received into the proper container. We ask that you review the paperwork prepared by the shipper and review the label the shipper has attached to the tank valve. Please instruct the driver to hook the hose to the proper outlet valve on the tank and the proper inlet valve leading to your tank and sign the statement below showing that the procedure was followed. We ask you to do this for each compartment to be unloaded. The driver is instructed not to unload unless this procedure is followed. We thank you for your cooperation in insuring a safe delivery.

I have checked the documents pertaining to this shipment and do certify that the hose is connected to the proper valve on the tank trailer and the proper fitting on storage facility; that the valve and piping is open to receive product at a rate of 150 gallons per minute and storage facility has enough room to hold the amount designated on the bill of lading.

(if tank is single compartment please sign Compartment #1).

Compartment #1 _____ CONSIGNEE SIGNATURE Compartment #4 _____ CONSIGNEE SIGNATURE

Compartment #2 _____ CONSIGNEE SIGNATURE Compartment #5 _____ CONSIGNEE SIGNATURE

Compartment #3 _____ CONSIGNEE SIGNATURE

Consignee & MTL DRIVER:

Consignee - You are responsible for unloading all contents consigned to you by shipper. Please sign below that you have inspected the tank and all product has been removed and received in good order except as noted:

_____ CONSIGNEE SIGNATURE

Driver - I have inspected the tank and the tank is empty. (Please call your dispatcher on any amount over 5 gals. left in tank).

_____ DRIVER SIGNATURE

ON - TIME PERFORMANCE MEASUREMENT (✓ ONE)

Late Pickup: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

Late Delivery: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

IRREGULAR OPERATION (✓) IF APPLICABLE

Cancelled Shipment ☐ Rejected Shipment ☐ Reconsigned Shipment ☐ Trailer Spotted ☐
Other ☐ Stop-Off ☐ (Attach Bill of Lading)

EXPLANATION: Date: / / Tractor #_____ Trailer #_____

OTHER SERVICES TO BE BILLED (✓) IF USED

Service	Origin	Destination
Pump unload		
Weigh Off Prem.		
Scale Ticket $		
Intransit Heat		
Hose 60'-3" 60'-2" ft.		
Drumming lbs.		
Air Compressor		
#Compartments		
Extra PU/DL		

TANK WASH BILLING SECTION-USE DISPATCH # AS PURCHASE ORDER ON ALL BILLING

Tank Wash Facility: _____
Date Dropped: _____ Driver's Home Terminal: _____
Trailer Number: _____ Billing Address: _____

Special Instructions:

Yes ☐ No ☐
Two or more loads hauled for same customer on the same day in commercial zone.

DELIVERY RECEIPT 5/96 CONSIGNEE – DRIVER LEAVE THIS COPY AT DESTINATION

REORDER #US-DRM

Material Safety Data Sheet

BASF CORPORATION
3000 CONTINENTAL DRIVE
MT. OLIVE, NJ 07828
(201) 426-4671

Original Date: 10/02/1992
Revision Date: 09/15/1995

Emergency Telephone: (800) 424-9300 (CHEMTREC)
(800) 832-HELP (BASF Hotline)
BOTH NUMBERS ARE AVAILABLE DAYS, NIGHTS, WEEKENDS, & HOLIDAYS.

SECTION 1 - PRODUCT INFORMATION

ANOLON®
Product ID: NCO 526172
Common Chemical Name:
N/A
Synonyms:
Cyclohexanone/Cyclohexanol Mixture
Molecular Formula:
MIXTURE
Molecular Wt.: NOT APPLICABLE
Chemical Family: Cyclic Ketone and Alcohol

SECTION 2 - INGREDIENTS

Chemical Name:					CAS	Amount
Cyclohexanol					108-93-0	- 60.0 %
ACGIH	TLV	TWA	50	PPM		
OSHA	PEL	TWA	50	PPM		
Cyclohexanone					108-94-1	- 40.0 %
ACGIH	TLV	SKIN				
		TWA	25	PPM		
OSHA	PEL	TWA	50	PPM		

SECTION 3 - PHYSICAL PROPERTIES

Color: Pale Yellow
Form/Appearance: Liquid
Odor: Camphor

	Typical	Low/High	U.O.M.
Specific Gravity:	0.941		
pH:	NOT AVAILABLE		

	Typical	Low/High	Deg.	@	Pressure
Boiling Pt:		75 - 165	C	760	MM HG
Freezing Pt:	NOT AVAILABLE				
Decomp. Tmp:	NOT AVAILABLE				

	Typical	Low/High	U.O.M.	@	Temperature
Solubility:		3.6 - 9	G/100 G WA		20 C

SECTION 4 - FIRE AND EXPLOSION DATA

	Typical	Low/High	Deg.	Method
Flash Point:	50.6		C	TAG CLOSED CUP
Autoignition:	300		C	NOT SPECIFIED
Flam. Limits:		1.1 - 8.1	%	

Extinguishing Media:
Water fog, alcohol foam, CO2 or dry chemical extinguishing media.

Fire Fighting Procedures:
Firefighters should be equipped with self-contained breathing apparatus and turn out gear. Water may be ineffective but should be used to keep exposed containers cool.

Unusual Hazards:
Vapors from heated (above flashpoint) of product may travel to a source of ignition and flash back.

SECTION 5 - HEALTH EFFECTS

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute Overexposure Effects:
Contact with the eyes may result in moderate to severe irritation and corneal injury. Contact with the skin results in moderate irritation; prolonged or repeated contact may cause dermatitis. Material may also be skin absorbed.
Inhalation of cyclohexanone vapors may cause narcosis, headache, drowsiness, tremors and other CNS effects. Cyclohexanone vapors may cause mild irritation to the eyes. Cyclohexanone can be skin absorbed.

Chronic Overexposure Effects:
Based on animal studies, overexposure to cyclohexanol by ingestion, inhalation or absorption can cause CNS depression, lacrimation, nausea, tremors or convulsions. Repeated overexposures in animals also caused tissue damage to the liver, kidney and heart.
Guinea pigs exposed to 4000 ppm of cyclohexanone for a 6-hour period showed signs of CNS depression, lacrimation, salivation, depression of body temperature and respiratory heart rate, and opacity of the cornea. Mice, guinea pigs, and cats exposed to 3800 ppm exhibited the same effects. Based on animal studies, overexposure could lead to liver and/or kidney damage.

First Aid Procedures - Skin:
Wash affected areas with soap and water. Remove and launder contaminated clothing before reuse. Get immediate medical attention.

First Aid Procedures - Eyes:
Immediately rinse eyes with running water for 15 minutes. Get immediate medical attention.

First Aid Procedures - Ingestion:
If swallowed, dilute with water and immediately induce vomiting. Never give fluids or induce vomiting if the victim is unconscious or having convulsions. Get immediate medical attention.

SECTION 5 - HEALTH EFFECTS (cont)

First Aid Procedures - Inhalation:
Move to fresh air. Aid in breathing, if necessary, and get immediate medical attention.

First Aid Procedures - Notes to Physicians:
None known.

First Aid Procedures - Aggravated Medical Conditions:
No data is available which addresses medical conditions that are generally recognized as being aggravated by exposure to this product. Please refer to Section 5 (Effects of Overexposure) for effects observed in animals.

First Aid Procedures - Special Precautions:
None

SECTION 6 - REACTIVITY DATA

Stability Data:
Stable

Incompatability:
Oxidizing/reducing agents, plastics, resins, rubber.

Conditions/Hazards to Avoid:
Avoid excessive heat and ignition sources.

Hazardous Decomposition/Polymerization:
Hazardous polymerizaton does not occur. Material is stable under normal conditions. Decomposition products are CO and CO2.

Corrosive Properties:
Not corrosive.

Oxidizer Properties:
Not an oxidizer

Other Reactivity Data:
None known.

SECTION 7 - PERSONAL PROTECTION

Clothing:
Gloves, coveralls, apron, and boots as necessary to prevent contact.

Eyes:
Chemical goggles; also wear a face shield if splashing hazard exists.

Respiration:
If vapors or mists are generated, wear a NIOSH/MSHA approved organic vapor/mist respirator. Use an air-supplied or self-contained breathing apparatus in emergency or non-routine, high exposure situations.

Ventilation:
Use local exhaust to control to recommended P.E.L.

Explosion Proofing:
Tools should be non-sparking. Exhaust fans should be explosion proof.

Other Personal Protection Data:
Eyewash fountains and safety showers must be easily accessible.

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL

General:
Spills should be contained, solidified and placed in suitable

SECTION 8 - SPILL-LEAK/ENVIRONMENTAL (cont)

containers for disposal in a RCRA licensed facility. This material is RCRA hazardous due to its properties.

Waste Disposal:

Incinerate at a RCRA licensed facility. Do not discharge into waterways or sewer systems without proper authority.

Container Disposal:

Empty containers with less than 1 inch of residue may be landfilled at a licensed facility. Recommend crushing or other means to prevent unauthorized reuse. Other containers must be disposed of in a RCRA licensed facility.

SECTION 9 - STORAGE AND HANDLING

General:

Avoid excessive heat or sources of ignition. Store in clean, cool, well-ventilated no-smoking area in sealed and grounded containers.

SECTION 10 - REGULATORY INFORMATION

TSCA Inventory Status

Listed on Inventory: YES

RCRA Haz. Waste No.: D001
CERCLA: YES **Reportable Qty.: (If YES)** 5000 LBS
The RCRA hazardous waste number D001 refers to this material's RCRA hazardous waste characteristic of ignitibility.

Hazard Ratings:

	Health:	Fire:	Reactivity:	Special:
HMIS	2	2	0	NA

This product is hazardous or contains components which are hazardous according to the OSHA Hazard Communication Standard.

SECTION 11 - TRANSPORTATION INFORMATION

DOT Proper Shipping Name:
REFER TO BASF BILL OF LADING
DOT Technical Name:
REFER TO BASF BILL OF LADING
DOT Primary Hazard Class:
REFER TO BASF BILL OF LADING
DOT Secondary Hazard Class:
REFER TO BASF BILL OF LADING
DOT Label Required:
REFER TO BASF BILL OF LADING
DOT Placard Required:
REFER TO BASF BILL OF LADING
DOT Poison Constituent:
REFER TO BASF BILL OF LADING
BASF Commodity Codes: NA NA **UN/NA Code:** 1993 **E/R Guide:**

Bill of Lading Description:
FOR THE MOST UP-TO-DATE D.O.T. SHIPPING DESCRIPTION, PLEASE REFER TO

SECTION 11 - TRANSPORTATION INFORMATION (cont)

THE BASF BILL OF LADING!

ANOLON
is a registered trademark of BASF Corporation or BASF AG.

WHILE BASF CORPORATION BELIEVES THE DATA SET FORTH HEREIN ARE ACCURATE AS THE DATE HEREOF, BASF CORPORATION MAKES NO WARRANTY WITH RESPECT THERETO AND EXPRESSINGLY DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. SUCH DATA ARE OFFERED SOLELY FOR CONSIDERATION, INVESTIGATION, AND VERIFICATION.

END OF DATA SHEET

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3853
DATE : 4-21-97
Job No. : 4-5488
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Services to the ETT 112 as follows:

Strip and blow dry. Deballast wing tank #4 and bow rake.
Weld two fractures, one on stern box and one on bow rake.
Weld dog back on wing tank hatch cover.

LABOR:	Leadman	5 Hrs.	@	35.00 (ST)	$ 175.00
	Leadman	3.5 Hrs.	@	49.50 (OT)	$ 173.25
	Journeyman	15 Hrs.	@	32.50 (ST)	$ 487.50
	Journeyman	10.5 Hrs.	@	45.75 (OT)	$ 480.38
STOCK:	$49.00	Plus 25%	@	12.25	$ 61.25
CHEMIST:	$300.00	Plus 25%	@	75.00	$ 375.00
EQUIPMENT:	Compressor	8 Hrs.	@	48.00/Hr.	$ 384.00
	Air Movers	32 Hrs.	@	5.00/Hr.	$ 160.00
	Vacuum	4 Hrs.	@	30.00/Hr.	$ 120.00
	Hand Hose	3 Hrs.	@	12.00/Hr.	$ 36.00
	2" Strip Pmp	8 Hrs.	@	15.00/Hr.	$ 120.00
	3" Gas Pump	12 Hrs.	@	18.00/Hr.	$ 216.00
	Weld Machine	2 Hrs.	@	15.00/Hr.	$ 30.00
	Cutting Rig	1 Hr.	@	8.00/Hr.	$ 8.00

TOTAL AMOUNT DUE $2,826.38

PHONE: (409) 233-6371

DAILY TIME LOG

DATE:	4-21-97	CUSTOMER:	BASF
JOB NO:	5488	BARGE:	EFT-112

START TIME 11:00AM STOP TIME 7:30PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5 3.5	5 3.5			
Cruz	5 3.5	5 3.5			
Quintero	5 3.5	5 3.5			
SAm	5 36	5 3.5			

MATERIAL LIST:

JOB DESCRIPTION:
Strip & Blow Dry / Deballast w/ #1 & Boiler; Weld 2 fractures = 1 on Stern Box and 1 on Bow Rake; Weld Dog back on w/ hatch Cover (#4).

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HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

Date: 11-21-97 Job No: 5488 Barge/M/V: Extra 112

EQUIPMENT	HOURS
Compressor	8
Air Movers	32
Vacuum	4
Steam Rig	
Hand Hose	3
Boiler	
2" Strip Pump	8
3" Diesel Pump	12
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	2
Cutting Rig	1
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	1
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

JOB WORKSCOPE/BREAKDOWN

Job Number: 4-5488 Date: 4-21-97 Invoice Number: 3853

Customer: BASF Barge/MV: ETT 112

Travel Time: _____ Hours @ $17.50/Hr = _____ Mileage: _____ @$.25/Mi = _____

Foreman:		Hours (ST)	@	$ 38.00/Hour	
		Hours (OT)	@	$ 53.25/Hour	
Leadman:	5	Hours (ST)	@	$ 35.00/Hour	175.00
	3.5	Hours (OT)	@	$ 49.50/Hour	173.25
Journeyman:	15 ~~10~~	Hours (ST)	@	$ 32.50/Hour	487.5 ~~325.00~~
	10 1/2 *	Hours (OT)	@	$ 45.75/Hour	480.38 ~~320.25~~

DISPOSAL:

Slop Oil		Gallons	@	$ 0.60/Gallon	
Water		Gallons	@	$ 0.35/Gallon	

WATER:		Gallons	@	$ 5.00/1,000 Gallons	

MATERIAL:		Plus 25%		=	
STOCK:	49.00	Plus 25%	12.25	=	61.25
CHEMIST:	300	Plus 25%	75.00	=	375.00

EQUIPMENT:

Compressor	8	Hours	@	$ 48.00/Hour	384.00
Air Movers	32	Hours	@	$ 5.00/Hour	160.00
Vacuum	4	Hours	@	$ 30.00/Hour	120.00
Hand Hose	3	Hours	@	$ 12.00/Hour	36.00
2" Strip Pump	8	Hours	@	$ 15.00/Hour	120.00
3" Gas Pump	12	Hours	@	$ 18.00/Hour	216.00
Hand Tools		Each	@	$ 10.00 Each	
Weld Machine	2	Hours	@	$ 15.00/Hour	30.00
Cutting Rig	1	Hours	@	$ 8.00/Hour	8.00
Haul Out		Each	@	$1,100.00 Each	
Forklift		Hours	@	$ 30.00/Hour	
Tugboat		Hours	@	$ 100.00/Hour	
Steam Rig		Hours	@	$ 100.00/Hour	
Cherry Picker		Hours	@	$ 70.00/Hour	
Crane		Hours	@	$ 130.00/Hour	
Butterworth		Hours	@	$ 10.00/Hour	
4" Elec Pump		Hours	@	$ 15.00/Hour	
Truck		Hours	@	$ 25.00/Hour	

MATERIAL COST:

Coveralls	2	@ 3.50 Ea.=	7.00	Batteries	2	@ 3.00 Ea.= 6.00
Respirator	4	@ 6.00 Ea.=	24.00	Gloves/Rbr		@ 3.00 Ea.=
Flashlights	1	@12.00 Ea.=	12.00	Gaskets		@ 6.00 Ea.=
Goggles		@ 4.00 Ea.=		Boots		@12.00 Pr.=
Raincoats		@40.00 Ea.=		White Rags		@20.00/Box=
Lantern		@13.00 Ea.=		Cleaner		@75.00 =

TOTAL INVOICE: ~~2428.75~~ 2826.38

P. O. BOX V - FREEPORT, TX 77542 FAX (409) 299-6655

MARINE CHEMIST CERTIFICATE

SERIAL NO. H3451

LARRY Survey Requested by	HERCULES Vessel Owner or Agent	21 APR 97 Date
ETT-112 Vessel	TANK BARGE Type of Vessel	HERCULES Specific Location of Ve
BUTANOL Last Three (3) Cargoes	LEL-O2-VISUAL Tests Performed	18:00 Time Survey Compl

CARGO TANKS No 1, 2 & 3
WING TANKS No 1, 2, 3 & 4 - PORT & STARBOARD
BOW RAKE
STERN BOX

SAFE FOR WORKERS
SAFE FOR HOTWORK

Job # 4-5488
Cell # 803 gm
$300.00

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of the Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and issued subject to compliance with all qualifications and instructions.

Signed Eduardo Duarte (Name) (Company) (Date)

Signed [illegible] (Marine Chemist) Certificate No. 62

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U

OILFIELD CORPORATION
Strength through experience, equipment, knowhow
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6376

FINAL CHECK LIST

ATE: 4-21-97

ARCE: ETT-112

NUMBER CHECKED 2 REPLACED GASKET YES ___ NO —

GATE VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO —

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

REDWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

LOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES ___ NO ___

LOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY CASAS

DRIP PANS COVER: CLOSED BY CASAS

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY Cruz

AIR TEST CARGO LINE - 40psi - USING COMP

SIGNATURE OF TESTER: [illegible]

WITNESS: [illegible]

CHECK VALVE GASKET WILL BE REPLACED
AIR TEST IN LAST SWING TO BE DONE BEFORE RELEASING BARGE.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS: BASF

HERCULES

TRANSFER FACILITY: BASF DOCK HERCULES

LOCATION: FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.120)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Split and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (e) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
[signature]	FOREMAN	4-24-97 11:00AM

Person in Charge Delivering Unit		
[signature]	FUEL PERSON	

TIME COMPLETED 4-24-97 = 7:30

* Rules and Regulations for Tank Vessels.

HAZARDOUS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 11-21-97 Supervisor [illegible]

Plant HERCULES Client Safety

Area GAS FREE DOCK

The following listed materials are considered to be hazardous to the employee working in this area:

N-BUTANOL

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
[illegible]			
[illegible]			
[illegible]			

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

DOT FLAMMABLE LIQUID NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

Information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date printed, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and/or conditions may change, it is the user's responsibility to determine the current appropriateness and suitability for specific end uses prior to use.

BARGE CLEANING REPORT

JOB NO. 4-5488

BARGE NO. ETT-112

COMPANY BASF

PRODUCT Normal Butanol

ETA 0800

DATE/TIME ARRIVAL 4-21-97/08

DATE/TIME STARTED 4-21-97/08

DATE/TIME COMPLETE 4-21-97/19

AMOUNT STRIPPED

CLEANING INSTRUCTION BY: Suzette

COMPLETION SCHEDULE BY: Suzette

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: Charlie

BARGE RELEASED TO: Brown Water IV DATE/TIME: 4-21-97/19:00

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY ____ DATE/TIME: ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES ✓ NO ____ CLOSED BY Juan NEW GASKET ✓ YES ____ NO ____

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT ✓

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Juan

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Juan NEW GASKET ____ YES ____ NO ✓

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80° RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ____ CLEAR ____

PIPELINE WASHED: NO PIPELINE BLOWN yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: ____

SUMP INSPECTED yes

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 4-21-97 1900 Time In 1920 Time Out

Inspected By Charlie Bennett - Caleb BRETT

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THE [illegible].

ITS Intertek Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

TIME LOG

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT/TERMINAL	DATE
ETT-112	99.9% Cyclohexane	Hercules-Freeport	4-21-97

MONTH	DAY	HOUR	EVENT
4	21	1826	Inspector Notified
		1900	Inspector Arrived
		1905	Commenced Barge Inspection
		1915	Completed Barge Inspection
		1920	Paperwork completed

For Vessel

Charlie Bennett
FOR CALEB BRETT

FORM # 2-044-97

ITS Intertek Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT / TERMINAL	DATE
ETT-112	99.9% Cyclohexane	Hercules-Freeport, Tx	4-21-97

Tank Number	1,2,3center						
Tank Coating	Mild Steel						
Last Cargo	Cyclo						
Second Last Cargo	Cyclo						
Third Last Cargo	Cyclo						
Time/Date Inspected	4-21-97 @ 910						
Visual Cleanliness Accepted/Rejected*							
Reason for Rejection							

Method said to have been used to clean tanks:	TK#1,2,3C	ALL TANKS AND LINES were Stripped + Blown Dry
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	

information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Charlie Benoit

FOR CALEB BRETT

Form # 2-056-97

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 4-5488

MARINE OPERATIONS FACILITY

DATE

ORDER WRITTEN	4-21-97
ETA	0800
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

M/V ☐ BARGE ☒

NAME: EIT 112

LOA: | BEAM:

FOREMAN: DUARTE

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX

PHONE NUMBER:

WORK AUTHORIZED BY: SUZETTE | OTHER AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 DEBALLAST [redacted] and release to Brown Water IV.

2 Strip + Blow + Gas free (Chemist) 4-21-3:30 P.M.

3 Weld fracture on bow rake.

4 Weld "dog" on wing tank #4.

5 Weld (1") fracture on Stern Box Port side.

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Nando Duarte Date: 4-21-97

4-5494 BASF
ETT 113 4-23-97

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. 4-5494

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 4-23-97

ETA: 11:30 a.m.

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☒

NAME: ETT 113

LOA:

BEAM:

FOREMAN:

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX

PHONE NUMBER:

WORK AUTHORIZED BY: SUZETTE

O/V AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW DRY. RELEASE TO BROWN WATER IV.

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

JOB NO. 5497 ETA

BARGE NO. Ett-112 DATE/TIME ARRIVAL 4-27-97, 8:

CUSTOMER BASF DATE/TIME STARTED 4-27-97, 8:3

PRODUCT N-Butanol Cyclohexane DATE/TIME COMPLETED 5-2-97 6:

DISPOSAL AMOUNT 250 AMOUNT STRIPPED 250

CLEANING INSTRUCTION BY: Robert Peters BY:

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: Duarte DATE/TIME:

BARGE RELEASED TO: DATE/TIME:

DEEPWELL OPENED: YES N/A NO ___ CLOSED BY ___ NEW GASKET ___ YES ___ NO ___

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ___ CLOSED BY Cruz NEW GASKET ___ YES ___ NO ✓

DECK CHECK VALVE OPENED: YES N/A NO ___ CLOSED BY ___ NEW GASKET ___ YES ___ NO ___

DECK HEADER BLINDS OPEN: YES ✓ NO ___ CLOSED BY Casas NEW GASKET ✓ YES ___ NO ___

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ___ CLOSED BY Casas

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ___ CLOSED BY Cruz NEW GASKET ___ YES ___ NO ✓

RUST SCALE: YES ___ NO ✓ WASHED OUT ___ BUCKETED OUT ___

NUMBER OF CARGO TANKS 3

[illegible] OF DRAIN VALVES God

[illegible] TANK STRIPPED: YES N/A NO ___ PIPE PRESSURE TEST DATE:

DRIP PANS STRIPPED: YES ✓ NO ___

WEATHER: TEMP 68 RAIN ✓ FOG ___ HUMIDITY ✓ OVERCAST ___ CLOUDY ___ CLEAR ___

PIPELINE WASHED: no PIPELINE BLOWN yes PIPELINE SUMPS INSPECTED ✓

BOW RAKE CHECKED: YES ✓ NO ___ STERN RAKE: YES ✓ NO ___

VOIDS: YES ✓ NO ___ SAFETY EQUIPMENT USED:

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The forman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 5/12/97 1720 Time In 1740 Time Out

Inspected By Charlei Bennett - Caleb BRETT

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

ITS Intertek Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT / TERMINAL	DATE
ETT-112	99.9% Cyclohexane	Hercules - Freeport, TX	5-2-97

Tank Number	123 center						
Tank Coating	Mild Steel						
Last Cargo	cyclo						
Second Last Cargo	cyclo						
Third Last Cargo	Cyclo						
Time/Date Inspected	5-2-97 @ 1735						
Visual Cleanliness Accepted/Rejected*							
Reason for Rejection							

Method said to have been used to clean tanks:	TK#123	ALL Tank and lines were stripped and Blown dry.
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-97

FOR CALEB BRETT

Intertek Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

TIME LOG

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT/TERMINAL	DATE
ETC-112	99.9% Cyclohexane	Hercules-Freeport	5-2-97

MONTH	DAY	HOUR	EVENT
5	2	1650	Inspector Notified
		1720	Inspector Arrived
		1725	Commenced Barge Preinspection
		1735	Completed Barge Preinspection
		1740	Paperwork complete

For Vessel

FOR CALEB BRETT

FORM # 2-044-97

[redacted]
3108 Central Dr. • Plant City, FL 33567
(813) 754-4725

SCHEDULED DELIVERY DATE: 3-7-97 | SCHEDULED DELIVERY TIME: ASAP

3-7-97 ASAP 7740799

SHIPPER: BASF 700 BIK
PICKUP POINT: FREEPORT, TX
SHIPPER NUMBER: 2199924
CONSIGNEE: HERCULES MARINE
DELIVERY POINT: FREEPORT, TX
CONSIGNEE NUMBER:

PICKUP TIMES	WEIGHTS	CMP.	QUANTITY	HAZ. MAT. (✓)	COMMODITY DESCRIPTION
ACTUAL PICKUP DATE 3-7-97	GROSS WEIGHT	1			CYCLOHEXANONE MIXTURE
ACTUAL PICKUP TIME AM 1700 PM	TARE WEIGHT	2			3, UN1915 PG III ERG 26
START LOADING AM 1715 PM	NET WEIGHT	3		✓	FLAMMABLE
FINISH LOADING AM 1830 PM	TRAILER # SK724	4			
TOTAL TIME LOADING 1½ hrs		5			
TRACTOR # 9717					
DRIVER # SK1091					

IN CASE OF: LEAK, SPILL, FIRE, OR OTHER EMERGENCY

CALL TOLL FREE

CHEMTREC

1-800-424-9300

DELIVERY TIMES

ACTUAL DATE DELIVERY: 3-7-97
ACTUAL TIME DELIVERY AM 19-00 PM
START UNLOADING AM 19-30 PM
FINISH UNLOADING AM 20-00 PM
TOTAL TIME UNLOADING 1 hr
TRACTOR # 9717
DRIVER # SK1091
IS THERE DEMURRAGE ON THE LOAD? (CIRCLE) YES NO
IF YES, SEE DEMURRAGE FORM

MONTGOMERY TANK LINES

24 Hour EMERGENCY RESPONSE Phone Number

1-800-759-8265

PLANT CITY, FL

UNLOADING AUTHORIZATION

Consignee:

The shipper of the product and Montgomery Tank Lines have developed the following procedure to insure that the product you ordered is received into the proper container. We ask that you review the paperwork prepared by the shipper and review the label the shipper has attached to the tank valve. Please instruct the driver to hook the hose to the proper outlet valve on the tank and the proper inlet valve leading to your tank and sign the statement below showing that the procedure was followed. We ask you to do this for each compartment to be unloaded. The driver is instructed not to unload unless this procedure is followed. We thank you for your cooperation in insuring a safe delivery.

I have checked the documents pertaining to this shipment and do certify that the hose is connected to the proper valve on the tank trailer and the proper fitting on storage facility; that the valve and piping is open to receive product at a rate of 150 gallons per minute and storage facility has enough room to hold the amount designated on the bill of lading.

(if tank is single compartment please sign Compartment #1).

Compartment #1 [signature] CONSIGNEE SIGNATURE — Compartment #4 _____ CONSIGNEE SIGNATURE

Compartment #2 _____ CONSIGNEE SIGNATURE — Compartment #5 _____ CONSIGNEE SIGNATURE

Compartment #3 _____ CONSIGNEE SIGNATURE

Consignee & MTL DRIVER:

Consignee - You are responsible for unloading all contents consigned to you by shipper. Please sign below that you have inspected the tank and all product has been removed and received in good order except as noted:

[signature] CONSIGNEE SIGNATURE

Driver - I have inspected the tank and the tank is empty. (Please call your dispatcher on any amount over 5 gals. left in tank).

[signature] DRIVER SIGNATURE

ON - TIME PERFORMANCE MEASUREMENT (✓ ONE)

Late Pickup: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

Late Delivery: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

IRREGULAR OPERATION (✓) IF APPLICABLE

Cancelled Shipment ☐ Rejected Shipment ☐ Reconsigned Shipment ☐ Trailer Spotted ☐ Other ☐ Stop-Off ☐ (Attach Bill of Lading)

EXPLANATION: Date: / / Tractor #_____ Trailer #_____

OTHER SERVICES TO BE BILLED (✓) IF USED

Service	Origin	Destination
Pump		✓
Weigh Off Prem.		
Scale Ticket $		
Intransit Heat		
Hose 60 ft.		✓
Drumming lbs.		
Air Compressor		
#Compartments		
Extra PU/DL		

TANK WASH BILLING SECTION-USE DISPATCH # AS PURCHASE ORDER ON ALL BILLING

Tank Wash Facility: _____

Dropped: _____ Driver's Home Terminal: _____

Number: _____ Billing Address: _____

Special Instructions:

Yes ☐ No ☐ Two or more loads hauled for same customer on the same day in commercial zone.

DELIVERY RECEIPT 5/96 CONSIGNEE – DRIVER LEAVE THIS COPY AT DESTINATION

REORDER #US-DRMT

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Shipper No. MSL - 219923

Shipping Order Copy

Carrier No.

MONTGOMERY TANK LINES - MOTO
(Name of Carrier)

Date 3-7-97

TO:		FROM:	
Consignee	HERCULES MARINE	Shipper	BASF CORPORATION
Street	906 MARLIN	Street	602 COPPER RD
Destination	FREEPORT TX Zip Code 77541	Origin	FREEPORT TX Zip Code 77541

Route: Vehicle No. SK722

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1 BLK T/T	RQ, CYCLOHEXANONE MIXTURE,	GROSS		
	3, UN1915, PGIII, ERG 26	TARE		
	PLACARDED: FLAMMABLE	NET		
	STCC 49-120-79			
		03:58 PM 03/07/97		
		30220 LB		
	05:29 PM 03/07/97			
	24420 LB(GROSS)			
	30220 LB REYL.(TARE)			
	COST CENTER 11180	54200 LB(NET)		

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.
The carrier shall not make delivery of this shipment without payment of freight and all other charges.
(Signature of Consignor)

FREIGHT CHARGES
Check Appropriate Box:
☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	BASF CORPORATION	CARRIER	MTC
PER	JOY BOWERS (409) 238-6151	PER	DATE 3/7/97

TOPS FORM No 3841 LITHO in USA

2

3108 Central Dr. • Plant City, FL 33567
(813) 754-4725

SCHEDULED DELIVERY DATE	SCHEDULED DELIVERY TIME
3/7/97	ASAP
3/7/97	ASAP

7740
7996

SHIPPER:	PICKUP POINT	SHIPPER NUMBER
BASF BIK-1100	Freeport, Texas	2199923
CONSIGNEE:	**DELIVERY POINT**	**CONSIGNEE NUMBER**
Hercules - Morrison	Freeport, Texas	

PICKUP TIMES	WEIGHTS
ACTUAL PICKUP DATE: 3/7/97	GROSS WEIGHT: 74420
ACTUAL PICKUP TIME: 3:05 AM PM	TARE WEIGHT: 30220
START LOADING: 11:20 AM PM	NET WEIGHT: 44200
FINISH LOADING: 5:35 AM PM	TRAILER #: SK-722
TOTAL TIME LOADING: 2½ hrs.	
TRACTOR #: S-846	
DRIVER #: SK-1131	

CMP.	QUANTITY	HAZ. MAT. (✓)	COMMODITY DESCRIPTION
1		X	RQ, Cyclohexanone Mixture
2			3, UN 1915, PG III
3			Anolon
4			
5			

DELIVERY TIMES

ACTUAL DATE DELIVERY: 3/7/97

ACTUAL TIME DELIVERY: 6:00 AM PM

START UNLOADING: 6:10 AM PM

FINISH UNLOADING: AM PM

TOTAL TIME UNLOADING:

TRACTOR #: S-846

DRIVER #: SK-1131

IS THERE DEMURRAGE ON THE LOAD? (CIRCLE) YES NO

IF YES, SEE DEMURRAGE FORM

IN CASE OF: LEAK, SPILL, FIRE, OR OTHER EMERGENCY

CALL TOLL FREE

CHEMTREC

1-800-424-9300

MONTGOMERY TANK LINES

24 Hour

EMERGENCY RESPONSE Phone Number

1-800-759-8265

PLANT CITY, FL

UNLOADING AUTHORIZATION

Consignee:

The shipper of the product and Montgomery Tank Lines have developed the following procedure to insure that the product you order is received into the proper container. We ask that you review the paperwork prepared by the shipper and review the label the shipper ha attached to the tank valve. Please instruct the driver to hook the hose to the proper outlet valve on the tank and the proper inlet valv leading to your tank and sign the statement below showing that the procedure was followed. We ask you to do this for each compartme to be unloaded. The driver is instructed not to unload unless this procedure is followed. We thank you for your cooperation in insuring safe delivery.

I have checked the documents pertaining to this shipment and do certify that the hose is connected to the proper valve on the tar trailer and the proper fitting on storage facility; that the valve and piping is open to receive product at a rate of 450 gallons per minute ar storage facility has enough room to hold the amount designated on the bill of lading.

(If tank is single compartment please sign Compartment #1).

Compartment #1 X [signature] CONSIGNEE SIGNATURE — Compartment #4 _____ CONSIGNEE SIGNATURE

Compartment #2 _____ CONSIGNEE SIGNATURE — Compartment #5 _____ CONSIGNEE SIGNATURE

Compartment #3 _____ CONSIGNEE SIGNATURE

Consignee & MTL DRIVER:

Consignee - You are responsible for unloading all contents consigned to you by shipper Please sign below that you have inspected the tank and all product has been removed an received in good order except as noted:

X [signature] CONSIGNEE SIGNATURE

Driver - I have inspected the tank and the tank is empty. (Please call your dispatcher o any amount over 5 gals. left in tank).

DRIVER SIGNATURE

ON - TIME PERFORMANCE MEASUREMENT (✓ ONE)

Late Pickup: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

Late Delivery: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

IRREGULAR OPERATION (✓) IF APPLICABLE

Cancelled Shipment ☐ Rejected Shipment ☐ Reconsigned Shipment ☐ Trailer Spotted ☐ Other ☐ Stop-Off ☐ (Attach Bill of Lading)

EXPLANATION: Date: / / Tractor #_____ Trailer #_____

OTHER SERVICES TO BE BILLED (✓) IF USED

Service	Origin	Destinatio
Pump unload		
Weigh Off Prem.		
Scale Ticket $		
Intransit Heat		
Hose ft.		
Drumming lbs.		
Air Compressor		
#Compartments		
Extra PU/DL		

Yes ☐ No ☐

Two or more loads hauled for same customer on the same day in commercial zone.

TANK WASH BILLING SECTION-USE DISPATCH # AS PURCHASE ORDER ON ALL BILLING

Tank Wash Facility: _____

Date Dropped: _____ Driver's Home Terminal: _____

iler Number: _____ Billing Address: _____

Special Instructions:

DELIVERY RECEIPT 5/96 CONSIGNEE – DRIVER LEAVE THIS COPY AT DESTINATION

REORDER #US-DRM

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Shipper No. MST - 219922

Shipping Order Copy

Carrier No. 5

MONTGOMERY TANK LINES - MOTOT
(Name of Carrier)

Date 3-7-97

TO:		FROM:	
Consignee	HERCULES MARINE	Shipper	BASF CORPORATIONS
Street	906 MARLIN	Street	602 COPPER RD
Destination	FREEPORT TX Zip Code 77541	Origin	FREEPORT TX Zip Code 77541

Route:

Vehicle No. 5K750

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1 BLK T/T	RQ, CYCLOHEXANONE MIXTURE,	GROSS		
	3, UN1915, PGIII, ERG 26	TARE		
	PLACARDED: FLAMMABLE	02:42 PM 03/07/97 NET		
	STCC 49-120-79	30240 LB		
	SEALS BCD 102855			
	" " 871			
	" " 899	04:07 PM 03/07/97		
		74300 LB(GROSS)		
		30240 LB REVED(TARE)		
		44060 LB(NET)		
	COST CENTER 11180			

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges

(Signature of Consignor)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	BASF CORPORATION	CARRIER	Montgomery
PER	JOY BOWERS (409) 238-6151	PER Lynn Caldwell	DATE 3-7-97

TOPS FORM No. 3841

LITHO in USA

2

[redacted]
3108 Central Dr. • Plant City, FL 33567
(813) 754-4725

SCHEDULED DELIVERY DATE	SCHEDULED DELIVERY TIME	
3-7-97	ASAP.	77409 995

SHIPPER:	PICKUP POINT	SHIPPER NUMBER
Basf.	Freeport, Tex	2199922
CONSIGNEE:	**DELIVERY POINT**	**CONSIGNEE NUMBER**
Hercules marina	Freeport, Tex	

PICKUP TIMES	WEIGHTS	CMP.	QUANTITY	HAZ. MAT. (✓)	COMMODITY DESCRIPTION
ACTUAL PICKUP DATE 3-7-97	GROSS WEIGHT	1		✓	RQ. cyclohexylamine Mixture
ACTUAL PICKUP TIME 2:00 AM PM	TARE WEIGHT 30240	2			3, UN1915 PG III ERG 26
START LOADING 3:10 AM PM	NET WEIGHT	3			STCC 49-120-19
FINISH LOADING 4:15 AM PM	TRAILER # SK 750	4			(anarol)
TOTAL TIME LOADING 2 hr.		5			

TRACTOR # 5-853
DRIVER # SK1154

DELIVERY TIMES

ACTUAL DATE DELIVERY 3-7-97
ACTUAL TIME DELIVERY 4:30 AM PM
START UNLOADING 4:35 AM PM
FINISH UNLOADING 5:30 AM PM
TOTAL TIME UNLOADING 1 hr.
TRACTOR # 5-853
DRIVER # SK 750
IS THERE DEMURRAGE ON THE LOAD? (CIRCLE) YES NO
IF YES, SEE DEMURRAGE FORM

IN CASE OF: LEAK, SPILL, FIRE, OR OTHER EMERGENCY

CALL TOLL FREE

CHEMTREC

1-800-424-9300

MONTGOMERY TANK LINES

24 Hour

EMERGENCY RESPONSE Phone Number

1-800-759-8265

PLANT CITY, FL

UNLOADING AUTHORIZATION

Consignee:

This shipper of the product and Montgomery Tank Lines have developed the following procedure to insure that the product you ordered is received into the proper container. We ask that you review the paperwork prepared by the shipper and review the label the shipper has attached to the tank valve. Please instruct the driver to hook the hose to the proper outlet valve on the tank and the proper inlet valve leading to your tank and sign the statement below showing that the procedure was followed. We ask you to do this for each compartment to be unloaded. The driver is instructed not to unload unless this procedure is followed. We thank you for your cooperation in insuring a safe delivery.

I have checked the documents pertaining to this shipment and do certify that the hose is connected to the proper valve on the tank trailer and the proper fitting on storage facility; that the valve and piping is open to receive product at a rate of 150 gallons per minute and storage facility has enough room to hold the amount designated on the bill of lading.

(If tank is single compartment please sign Compartment #1).

Compartment #1 ✓ [signature] CONSIGNEE SIGNATURE Compartment #4 _____ CONSIGNEE SIGNATURE

Compartment #2 _____ CONSIGNEE SIGNATURE Compartment #5 _____ CONSIGNEE SIGNATURE

Compartment #3 _____ CONSIGNEE SIGNATURE

Consignee & MTL DRIVER:

Consignee - You are responsible for unloading all contents consigned to you by shipper. Please sign below that you have inspected the tank and all product has been removed and received in good order except as noted:

[signature] CONSIGNEE SIGNATURE

Driver - I have inspected the tank and the tank is empty. (Please call your dispatcher on any amount over 5 gals. left in tank).

Lynn Caldwell DRIVER SIGNATURE

ON - TIME PERFORMANCE MEASUREMENT (✓ ONE)

Late Pickup: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

Late Delivery: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

IRREGULAR OPERATION (✓) IF APPLICABLE

Cancelled Shipment ☐ Rejected Shipment ☐ Reconsigned Shipment ☐ Trailer Spotted ☐ Other ☐ Stop-Off ☐ (Attach Bill of Lading)

EXPLANATION: Date: / / Tractor #_____ Trailer #_____

OTHER SERVICES TO BE BILLED (✓) IF USED

Service	Origin	Destination
Pump		
Weigh Off Prem.		
Scale Ticket $		
Intransit Heat		
Hose ft.		
Drumming lbs.		
Air Compressor		
#Compartments		
Extra PU/DL		

Yes ☐ No ☐

Two or more loads hauled for same customer on the same day in commercial zone.

TANK WASH BILLING SECTION-USE DISPATCH # AS PURCHASE ORDER ON ALL BILLING

Tank Wash Facility: _____

Date Dropped: _____ Driver's Home Terminal: _____

Trailer Number: _____ Billing Address: _____

Special Instructions:

DELIVERY RECEIPT 5/96 CONSIGNEE – DRIVER LEAVE THIS COPY AT DESTINATION

REORDER #US-DRMT

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Shipper No. [illegible]

Shipping Order Copy

Carrier No.

MONTGOMERY TANK LINES - MOTO

(Name of Carrier)

Date 3-7-97

TO:		FROM:	
Consignee	HERCULES MARINE	Shipper	BASF CORPORATION
Street	906 MARLIN	Street	602 COPPER RD
Destination	FREEPORT TX Zip Code 77541	Origin	FREEEPORT TX Zip Code 77541

Route:

Vehicle No. 5K 724

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1 BLK T/T	RQ, CYCLOHEXANONE MIXTURE,	GROSS 12:46 PM 03/07/97		
	3, UN1915, PGIII, ERG 26 M	TARE 30540 LB		
	PLACARDED: FLAMMABLE	NET		
	STCC 49-120-79			
		02:38 PM 03/07/97		
		73960 LB(GROSS)		
		30540 LB REYED(TARE)		
		43420 LB(NET)		
	COST CENTER 11180			

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor.)

FREIGHT CHARGES

Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	BASF CORPORATION	CARRIER		DATE 3-7-97
PER	JOY BOWERS (409) 238-6151	PER		

TOPS FORM No. 3841

LITHO in USA

2

MONTGOMERY TANK LINES
3108 Central Dr. • Plant City, FL 33567
(813) 754-4725

SCHEDULED PICKUP DATE	SCHEDULED PICKUP TIME	DISPATCH NUMBER
3-7-97	0900	4
SCHEDULED DELIVERY DATE	**SCHEDULED DELIVERY TIME**	
3-7-97	ASAP	77407994

SHIPPER: BASF 0700 BLK
PICKUP POINT: FREEPORT, TX
SHIPPER NUMBER: 299914 = 219914
CONSIGNEE: HERCULES MARINE
DELIVERY POINT: FREEPORT TX
CONSIGNEE NUMBER: PO # 45200

PICKUP TIMES	WEIGHTS	CMP.	QUANTITY	HAZ. MAT. (✓)	COMMODITY DESCRIPTION
ACTUAL PICKUP DATE: 3-7-97	GROSS WEIGHT: 73960	1			CYCLOHEXANONE MIXTURE
ACTUAL PICKUP TIME: 0900 AM	TARE WEIGHT: 30540	2			3, UN1915 PG III ERG 26
START LOADING: 1315 PM	NET WEIGHT: 43420	3			FLAMMABLE
FINISH LOADING: 1130 AM	TRAILER #: SK 724	4			
TOTAL TIME LOADING: 5½ hr.		5			
TRACTOR #: 8719					
DRIVER #: SK1091					
DELIVERY TIMES					
ACTUAL DATE DELIVERY: 3-7-97					
ACTUAL TIME DELIVERY: 1500 AM					
START UNLOADING: 1530 PM					
FINISH UNLOADING: AM					
TOTAL TIME UNLOADING: PM					
TRACTOR #: 8719					
DRIVER #: SK 1091					
IS THERE DEMURRAGE ON THE LOAD? (CIRCLE) YES NO					
IF YES, SEE DEMURRAGE FORM					

IN CASE OF: LEAK, SPILL, FIRE, OR OTHER EMERGENCY

CALL TOLL FREE

CHEMTREC

1-800-424-9300

MONTGOMERY TANK LINES

24 Hour

EMERGENCY RESPONSE Phone Number

1-800-759-8265

PLANT CITY, FL

UNLOADING AUTHORIZATION

Consignee:

The shipper of the product and Montgomery Tank Lines have developed the following procedure to insure that the product you ordered is received into the proper container. We ask that you review the paperwork prepared by the shipper and review the label the shipper has attached to the tank valve. Please instruct the driver to hook the hose to the proper outlet valve on the tank and the proper inlet valve leading to your tank and sign the statement below showing that the procedure was followed. We ask you to do this for each compartment to be unloaded. The driver is instructed not to unload unless this procedure is followed. We thank you for your cooperation in insuring a safe delivery.

I have checked the documents pertaining to this shipment and do certify that the hose is connected to the proper valve on the tank trailer and the proper fitting on storage facility; that the valve and piping is open to receive product at a rate of 150 gallons per minute and storage facility has enough room to hold the amount designated on the bill of lading.

(If tank is single compartment please sign Compartment #1).

Compartment #1 [signature] CONSIGNEE SIGNATURE — Compartment #4 _____ CONSIGNEE SIGNATURE

Compartment #2 _____ CONSIGNEE SIGNATURE — Compartment #5 _____ CONSIGNEE SIGNATURE

Compartment #3 _____ CONSIGNEE SIGNATURE

Consignee & MTL DRIVER:

Consignee - You are responsible for unloading all contents consigned to you by shipper. Please sign below that you have inspected the tank and all product has been removed and received in good order except as noted:

[signature] CONSIGNEE SIGNATURE

Driver - I have inspected the tank and the tank is empty. (Please call your dispatcher on any amount over 5 gals. left in tank).

[signature] DRIVER SIGNATURE

ON - TIME PERFORMANCE MEASUREMENT (✓ ONE)

Late Pickup: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

Late Delivery: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error

Explanation:

IRREGULAR OPERATION (✓) IF APPLICABLE

Cancelled Shipment ☐ Rejected Shipment ☐ Reconsigned Shipment ☐ Trailer Spotted ☐ Other ☐ Stop-Off ☐ (Attach Bill of Lading)

EXPLANATION: Date: / / Tractor # _____ Trailer # _____

OTHER SERVICES TO BE BILLED (✓) IF USED

Service	Origin	Destination
Pump		✓
Weigh Off Prem.		
Scale Ticket $		
Intransit Heat		
Hose 60 ft.		✓
Drumming lbs.		
Air Compressor		
#Compartments		
Extra PU/DL		

TANK WASH BILLING SECTION-USE DISPATCH # AS PURCHASE ORDER ON ALL BILLING

Tank Wash Facility: _____

Date Dropped: _____ Driver's Home Terminal: _____

Trailer Number: _____ Billing Address: _____

Special Instructions:

Yes ☐ No ☐

Two or more loads hauled for same customer on the same day in commercial zone.

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Shipper No. [illegible]

Shipping Order Copy

Carrier No.

MONTGOMERY TANK LINES - MOTOT
(Name of Carrier)

Date 3-7-97

TO:		FROM:	
Consignee	HERCULES MARINE	Shipper	BASF CORPORATION
Street	906 MARLIN	Street	602 COPPER RD
Destination	FREEPORT TX Zip Code 77541	Origin	FREEPORT TX Zip Code 77541

Route:

Vehicle No. SK722

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1 BLK T/T	RQ, CYCLOHEXANONE MIXTURE, 08:28 AM 03/07/97 ~~30240 LB~~	GROSS ~~08:28 AM 03/07/97~~		
	3, UN1915, PGIII, ERG 26	TARE		
	PLACARDED: FLAMMABLE	NET 30240 LB		
	STCC 49-120-79			
	Seals #s BCO 102931			
	102932			
	102933			
	102934	12:05 PM 03/07/97		
		74360 LB (GROSS)		
		30240 LB (TARE)		
	COST CENTER 11180	44120 LB (NET)		

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

$ _____ per _____

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement.

The carrier shall not make delivery of this shipment without payment of freight and all other charges

R. Gaines
(Signature of Consignor.)

FREIGHT CHARGES
Check Appropriate Box:

☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	BASF CORPORATION	CARRIER	
PER	JOY BOWERS (409) 238-6151	PER	DATE

TOPS FORM No 3841

LITHO. in USA

2

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Shipper No. MSS - 219912

Shipping Order Copy

Carrier No.

MONTGOMERY TANK LINES - MOTO
(Name of Carrier)

Date 3-7-97

TO:		FROM:	
Consignee	HERCULES MARINE	Shipper	BASF CORPORATION
Street	906 MARLIN	Street	602 COPPER RD
Destination	FREEPORT, TX Zip Code 77541	Origin	FREEPORT TX Zip Code 77541

Route:

Vehicle No. SK 750

No. Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1 BLK T/T	RQ, CYCLOHEXAMONE MIXTURE,	GROSS 11:03 AM 03/07/97		
	3, UN1915, PGIII, ERG 26	TARE 30480 LB		
	PLACARDS: FLAMMABLE	NET		
	STCC 49-120-79			
		11:03 AM 03/07/97		
	Seals #s BCD 102869	25520 LB(GROSS)		
	102884	30480 LB (TARE)		
	102881	45040 LB(NET)		
	COST CENTER 11180 102892			

REMIT C.O.D. TO: ADDRESS	COD Amt: $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ per

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement
The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES
Check Appropriate Box:

☒ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its said place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of said property over all or any portion of said route to destination and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	BASF CORPORATION	CARRIER	Montgomery
PER	JOY BOWERS (409) 238-6151	PER	Jim Caldwell DATE 3-7-97

TOPS FORM No 3841 LITHO in USA

[redacted] LINES
3108 Central Dr. • Plant City, FL 33567
(813) 754-4725

SCHEDULED DELIVERY DATE	SCHEDULED DELIVERY TIME	
3-7-97	800 AM	774407
3-7-97	ASAP	992

SHIPPER:	PICKUP POINT	SHIPPER NUMBER
Basf.	Freeport, Tex	2199912
CONSIGNEE:	**DELIVERY POINT**	**CONSIGNEE NUMBER**
Hercules	Freeport, Texas	

PICKUP TIMES	WEIGHTS	CMP.	QUANTITY	HAZ. MAT. (✓)	COMMODITY DESCRIPTION
ACTUAL PICKUP DATE 3-7-97	GROSS WEIGHT 75520	1	45040	✓	RQ Cyclohexanone Mixture
ACTUAL PICKUP TIME AM 7.55 PM	TARE WEIGHT 30480	2			3, UN 1915 PG III ERG 26.
START LOADING AM 9.10 PM	NET WEIGHT 45040	3			STCC 49-120-79
FINISH LOADING AM 11.00 PM	TRAILER # SK750	4			
TOTAL TIME LOADING 3 hrs.		5			

TRACTOR # 5853
DRIVER # SK1154

DELIVERY TIMES

ACTUAL DATE DELIVERY 3-7-97
ACTUAL TIME DELIVERY AM 11.30 PM
START UNLOADING AM 12.30 PM
FINISH UNLOADING AM 1.45 PM
TOTAL TIME UNLOADING 2 3/4
TRACTOR # 5-853
DRIVER # SK1154

IS THERE DEMURRAGE ON THE LOAD? (CIRCLE) YES NO
IF YES, SEE DEMURRAGE FORM

IN CASE OF: LEAK, SPILL, FIRE, OR OTHER EMERGENCY
CALL TOLL FREE
CHEMTREC
1-800-424-9300

MONTGOMERY TANK LINES

24 Hour EMERGENCY RESPONSE Phone Number
1-800-759-8265
PLANT CITY, FL

UNLOADING AUTHORIZATION

Consignee:
The shipper of the product and Montgomery Tank Lines have developed the following procedure to insure that the product you ordered is received into the proper container. We ask that you review the paperwork prepared by the shipper and review the label the shipper has attached to the tank valve. Please instruct the driver to hook the hose to the proper outlet valve on the tank and the proper inlet valve leading to your tank and sign the statement below showing that the procedure was followed. We ask you to do this for each compartment to be unloaded. The driver is instructed not to unload unless this procedure is followed. We thank you for your cooperation in insuring a safe delivery.

I have checked the documents pertaining to this shipment and do certify that the hose is connected to the proper valve on the tank trailer and the proper fitting on storage facility; that the valve and piping is open to receive product at a rate of 150 gallons per minute and storage facility has enough room to hold the amount designated on the bill of lading.
(if tank is single compartment please sign Compartment #1).

Compartment #1 [signature] CONSIGNEE SIGNATURE
Compartment #2 _____ CONSIGNEE SIGNATURE
Compartment #3 _____ CONSIGNEE SIGNATURE
Compartment #4 _____ CONSIGNEE SIGNATURE
Compartment #5 _____ CONSIGNEE SIGNATURE

Consignee & MTL DRIVER:
Consignee - You are responsible for unloading all contents consigned to you by shipper. Please sign below that you have inspected the tank and all product has been removed and received in good order except as noted:
[signature] CONSIGNEE SIGNATURE

Driver - I have inspected the tank and the tank is empty. (Please call your dispatcher or any amount over 5 gals. left in tank).
[signature] DRIVER SIGNATURE

ON - TIME PERFORMANCE MEASUREMENT (✓ ONE)

Late Pickup: _____ Shipper Error ✓ Dispatch Error _____ Equipment Error _____ Driver Error
Explanation:

Late Delivery: _____ Shipper Error _____ Dispatch Error _____ Equipment Error _____ Driver Error
Explanation:

IRREGULAR OPERATION (✓) IF APPLICABLE

Cancelled Shipment ☐ Rejected Shipment ☐ Reconsigned Shipment ☐ Trailer Spotted ☐
Other ☐ Stop-Off ☐ (Attach Bill of Lading)

EXPLANATION: Date: / / Tractor #_____ Trailer #_____

OTHER SERVICES TO BE BILLED (✓) IF USED

Service	Origin	Destination
Pump		✓
Weigh Off Prem.		
Scale Ticket $		
Intransit Heat		
Hose 60 ft.		✓
Drumming lbs.		
Air Compressor		
#Compartments		
Extra PU/DL		

Yes ☐ No ☐
Two or more loads hauled for same customer on the same day in commercial zone.

TANK WASH BILLING SECTION-USE DISPATCH # AS PURCHASE ORDER ON ALL BILLING

Tank Wash Facility: _____
Date Dropped: _____ Driver's Home Terminal: _____
Trailer Number: _____ Billing Address: _____

Special Instructions:

DELIVERY RECEIPT 5/96 CONSIGNEE – DRIVER LEAVE THIS COPY AT DESTINATION

REORDER #US-DRMT

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM

Shipping Order Copy

Shipper No MSI - 219934

Carrier No.

MONTGOMERY TANK LINES - MOTO
(Name of Carrier)

Date 3-7-97

TO:		FROM:	
Consignee	HERCULES MARINE	Shipper	BASF CORPORATION
Street	906 MARLIN	Street	602 COPPER RD
Destination	FREEPORT TX Zip Code 77541	Origin	FREEPORT TX Zip Code 77541

Route

Vehicle No. SK 724

No Shipping Units	Kind of Packaging, Description of Articles Special Marks and Exceptions	Weight (Subject to Correction)	RATE	CHARGES
1 BLK T/T	RQ, CYCLOHEXANONE MIXTURE,	GROSS		
	33,UN 1915, PGIII, ERG#86	TARE		
	PLACARDED: FLAMMABLE	NET		
	STCC 49-120-79			
	04:40 PM 03/07/97			
	20500 LF			
	08:00 PM 03/07/97			
	20500 LF			
	20500 LF [illegible]			
	47100 LF [illegible]			
	COST CENTER 11180			

REMIT C.O.D. TO ADDRESS	COD Amt $	C.O.D. FEE: PREPAID ☐ COLLECT ☐ $	TOTAL CHARGES: $

Note - Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding
$ _____ per _____

Subject to Section 7 of the conditions of this shipment, it is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other charges.

(Signature of Consignor)

FREIGHT CHARGES
Check Appropriate Box:
☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the terms and conditions of the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions of the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER	BASF CORPORATION	CARRIER	
PER	JOY BOWERS (409) 238-6151	PER	DATE 3/7/97

TOPS FORM No. 384

UTIC in USA

2

4-5497
ETT 112

BASF
4-27-97

HERCULES OFFSHORE CO.

INVOICE NO. 3862

MARINE REPAIR ORDER No. 45497

MARINE OPERATIONS FACILITY

CUSTOMER P.O.

DATE

ORDER WRITTEN: 4-22-97

ETA:

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☒

NAME: ETT 112

LOA:

WIDTH:

FOREMAN: C. Duarte

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE:

ON WAYS DATE:

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: Freeport

PHONE NUMBER:

WORK AUTHORIZED BY:

O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Strip & Blow Dry
Deballast — Gas Free
Chemist

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

DAILY TIME LOG

DATE:	4-27-97	CUSTOMER:	BASF
JOB NO:	5497	BARGE:	EXTRA 2

START TIME 8:30 STOP TIME 4:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Alredin	7				
Caron	6				
Quinten	7				
Cruz	7				
Rivera	7				

MATERIAL LIST:

JOB DESCRIPTION:

Strip Blow Grass Dehalliet Wing
tanks no= 4-3-2-Bow Rake

DAILY TIME LOG

DATE:	6-2-97	CUSTOMER:	BASF
JOB NO:	5497	BARGE:	ETZ112

START TIME 4:00 PM STOP TIME 6:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	2 1/2				
Cruz	2 1/2				
Quinlan	1				

MATERIAL LIST:

JOB DESCRIPTION:

BALLAST to BOW RAKE

OFFSHORE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6275

FINAL CHECK LIST

DATE: 4-27-97

BARGE: Ett-112

END NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ✓

AIR VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO ✓

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

GREENWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

FLOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES ___ NO ___

FLOW DECK CARGO PIPELINE BLIND REMOVED YES ___ NO ✓

DRIP PANS VALVES: CLOSED BY Cruz

DRIP PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY CASAS

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: [signature]

WITNESS: [signature]

CHECK VALVE GASKETS WILL BE REPLACED
AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 4-22-97 Job No: _____ Barge/M/V: Ett=112

EQUIPMENT	HOURS
Compressor	8
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Boiler	
2" Strip Pump	10
3" Diesel Pump	14
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS: BASF

Ett-112

TRANSFER FACILITY: Hercules Marine Gas Free Dock

LOCATION: FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signal. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.130)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Spill and Emergency shutdown procedures. (156.120 (c))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of these I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
Claudio Duenta	Foreman	4-27-97 = 8:30

Person in Charge Delivering Unit		
Claudio Duenta	FUEL PERSON	

TIME COMPLETED 4-29-97

* Rules and Regulations for Tank Vessels

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 4-27-97 Supervisor [illegible]

Plant Hercules Marine Client Safety _____

Area LPGS Fire Dock

The following listed materials are considered to be hazardous to the employe working in this area:

OP. Butanol

The employee assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]	000		
Juan J Quenta			
[illegible]			
Rogers Cruz			

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

DOT FLAMMABLE LIQUID NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date printed, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and/or conditions may change, it is the user's responsibility to determine the current appropriateness and suitability for specific end uses prior to use.

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

LOG OF INSPECTIONS AND TESTS BY COMPETENT PERSON

(See other side for instructions)

Job No. Date

Vessel ETT 112 Type Tank Barge Berth Hercules Report No. 6

Name of Space (Last Cargo)	Operation	Date	Time	Result of Test (Instrument Used)	Instructions	Initials
Bow Rake	Entry & Hot Work	5-2-97	7:00	LEL-0% O_2-20.8%	(Safe for workers & Safe for Hot Work)	RSP
Wing tank #1P		" "	7:08	LEL-0% O_2-20.8%	Provide Ventilation during (all Entry by workers)	RSP
" " #2P		" "	7:14	LEL-0% O_2-20.8%	" "	RSP
" " #3P		" "	7:21	LEL-0% O_2-20.8%	" "	RSP
" " #4P		" "	7:28	LEL-0% O_2-20.8%	" "	RSP
Stern Box		" "	7:35	LEL-0% O_2-20.8%	" "	RSP
Wing tank #4S		" "	7:42	LEL-0% O_2-20.8%	" "	RSP
" " #3S		" "	7:49	LEL-0% O_2-20.8%	" "	RSP
" " #2S		" "	7:56	LEL-0% O_2-20.8%	" "	RSP
" " #1S		" "	8:03	LEL-0% O_2-20.8%	" "	RSP
(Butanol) Cargo tank #1		" "	8:10	LEL-0% O_2-20.8%	" "	RSP
" " #2		" "	8:16	LEL-0% O_2-20.8%	" "	RSP
" " #3		" "	8:23	LEL-0% O_2-20.8%	" "	RSP

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

LOG OF INSPECTIONS AND TESTS BY COMPETENT PERSON

(See other side for instructions)

Job No. Date

Vessel ETT 112 Type Tank Barge Berth Hercules Report No. 5

Name of Space (Last Cargo)	Operation	Date	Time	Result of Test (Instrument Used)	Instructions	Initials
Bow Rake	Entry & Hot Work	5-1-97	7:06	LEL - 0% O_2 - 20.8%	(Safe for workers Safe for Hot Work	RSP
Wing tank #1P		" "	7:13	LEL - 0% O_2 - 20.8%	Provide Ventilation during all Entry by workers)	RSP
" " #2P		" "	7:20	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3P		" "	7:28	LEL - 0% O_2 - 20.8%	" "	RSP
" " #4P		" "	7:35	LEL - 0% O_2 - 20.8%	" "	RSP
Stern Box		" "	7:42	LEL - 0% O_2 - 20.8%	" "	RSP
Wing tank #4S		" "	7:49	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3S		" "	7:56	LEL - 0% O_2 - 20.8%	" "	RSP
" " #2S		" "	8:03	LEL - 0% O_2 - 20.8%	" "	RSP
" " #1S		" "	8:09	LEL - 0% O_2 - 20.8%	" "	RSP
(Butanol) Cargo tank #1		" "	8:16	LEL - 0% O_2 - 20.8%	" "	RSP
" " #2		" "	8:22	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3		" "	8:29	LEL - 0% O_2 - 20.8%	" "	RSP

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

LOG OF INSPECTIONS AND TESTS BY COMPETENT PERSON

(See other side for instructions)

Job No. Date

Vessel ETT 112 Type Tank Barge Berth Hercules Report No. 4

Name of Space (Last Cargo)	Operation	Date	Time	Result of Test (Instrument Used)	Instructions	Initials
Bow Rake	Entry & Hot Work	4-30-97	7:01	LEL - 0% O_2 - 20.8%	(Safe for workers Safe for Hot Work)	RSP
Wingtank #1P		" "	7:08	LEL - 0% O_2 - 20.8%	Provide Ventilation during (all Entry by workers)	RSP
" " #2P		" "	7:15	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3P		" "	7:23	LEL - 0% O_2 - 20.8%	" "	RSP
" " #4P		" "	7:30	LEL - 0% O_2 - 20.8%	" "	RSP
Stern Box		" "	7:36	LEL - 0% O_2 - 20.8%	" "	RSP
Wingtank #4S		" "	7:43	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3S		" "	7:50	LEL - 0% O_2 - 20.8%	" "	RSP
" " #2S		" "	7:57	LEL - 0% O_2 - 20.8%	" "	RSP
" " #1S		" "	8:03	LEL - 0% O_2 - 20.8%	" "	RSP
(Butanol) Cargo tank #1		" "	8:10	LEL - 0% O_2 - 20.8%	" "	RSP
" " #2		" "	8:17	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3		" "	8:25	LEL - 0% O_2 - 20.8%	" "	RSP

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

LOG OF INSPECTIONS AND TESTS BY COMPETENT PERSON

(See other side for instructions)

Job No. Date

Vessel ETT 112 Type Tank Barge Berth Hercules Report No. 3

Name of Space (Last Cargo)	Operation	Date	Time	Result of Test (Instrument Used)	Instructions	Initials
Bow Rake	Entry & Hot Work	4-29-97	7:05	LEL - 0% O_2 - 20.8%	(Safe for Workers Safe for Hot Work	RSP
Wing tank #1P		〃	7:12	LEL - 0% O_2 - 20.8%	Provide Ventilation during all entry by workers)	RSP
〃 #2P		〃	7:19	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #3P		〃	7:25	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #4P		〃	7:32	LEL - 0% O_2 - 20.8%	〃	RSP
Stern Box		〃	7:40	LEL - 0% O_2 - 20.8%	〃	RSP
Wing tank #4S		〃	7:46	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #3S		〃	7:53	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #2S		〃	8:00	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #1S		〃	8:07	LEL - 0% O_2 - 20.8%	〃	RSP
(Butanol) Cargo tank #1		〃	8:15	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #2		〃	8:21	LEL - 0% O_2 - 20.8%	〃	RSP
〃 #3		〃	8:28	LEL - 0% O_2 - 20.8%	〃	RSP

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

LOG OF INSPECTIONS AND TESTS BY COMPETENT PERSON

(See other side for instructions)

Job No.: Date:

Vessel: ETT 112 Type: Tank Barge Berth: Hercules Report No.: 2

Name of Space (Last Cargo)	Operation	Date	Time	Result of Test (Instrument Used)	Instructions	Initials
Bow Rake	Entry & Hot Work	4-28-99	7:03	LEL - 0% O2 - 20.8%	(Safe for Workers Safe for Hot Work	RSP
Wingtank #1 P		" "	7:09	LEL - 0% O2 - 20.8%	Provide Ventilation during all entry by workers)	RSP
" #2P		" "	7:16	LEL - 0% O2 - 20.8%	" "	RSP
" #3P		" "	7:22	LEL - 0% O2 - 20.8%	" "	RSP
" #4P		" "	7:28	LEL - 0% O2 - 20.8%	" "	RSP
Stern Box		" "	7:35	LEL - 0% O2 - 20.8%	" "	RSP
Wingtank #4S		" "	7:42	LEL - 0% O2 - 20.8%	" "	RSP
" #3S		" "	7:48	LEL - 0% O2 - 20.8%	" "	RSP
" #2S		" "	7:53	LEL - 0% O2 - 20.8%	" "	RSP
" #1S		" "	7:59	LEL - 0% O2 - 20.8%	" "	RSP
(Butanol) Cargo tank #1		" "	8:06	LEL - 0% O2 - 20.8%	" "	RSP
" #2		" "	8:14	LEL - 0% O2 - 20.8%	" "	RSP
" #3		" "	8:21	LEL - 0% O2 - 20.8%	" "	RSP

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

LOG OF INSPECTIONS AND TESTS BY COMPETENT PERSON

(See other side for instructions)

Job No.

Date

Vessel ETT 142 Type Tank Barge Berth Hercules Report No. 1

Name of Space (Last Cargo)	Operation	Date	Time	Result of Test (Instrument Used)	Instructions	Initials
Bow Rake	Entry & Hot Work	4-27-97	07:06	LEL - 0% O_2 - 20.8%	(Safe for Workers Safe for Hot Work)	RSP
Wingtank #1 P		" "	7:13	LEL - 0% O_2 - 20.8%	Provide Ventilation during all Entry by Workers	RSP
" " #2P		" "	7:19	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3P		" "	7:25	LEL - 0% O_2 - 20.8%	" "	RSP
" " #4P		" "	7:32	LEL - 0% O_2 - 20.8%	" "	RSP
Stern Box		" "	7:40	LEL - 0% O_2 - 20.8%	" "	RSP
Wingtank #4S		" "	7:47	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3S		" "	7:53	LEL - 0% O_2 - 20.8%	" "	RSP
" " #2S		" "	8:00	LEL - 0% O_2 - 20.8%	" "	RSP
" " #1S		" "	8:06	LEL - 0% O_2 - 20.8%	" "	RSP
(Butanol) Cargotanks #1		" "	8:14	LEL - 0% O_2 - 20.8%	" "	RSP
" " #2		" "	8:21	LEL - 0% O_2 - 20.8%	" "	RSP
" " #3		" "	8:28	LEL - 0% O_2 - 20.8%	" "	RSP

P.O. BOX V FREEPORT, TX 77542 FAX (409) 299-0655

MARINE CHEMIST CERTIFICATE

SERIAL NO. H34527

LARRY Survey Requested by	HERCULES Vessel Owner or Agent	26 APR 97 Date
ETT 112 Vessel	TANK BARGE Type of Vessel	HERCULES Specific Location of Vessel
BUTANOL Last Three (3) Cargoes	LEL-O_2-VISUAL Tests Performed	16:00 Time Survey Completed

BOW RAKE
STERN BOX
WING TANKS No 1, 2, 3 & 4 - PORT & STARBOARD
CARGO TANKS No 1, 2 & 3

} SAFE FOR WORKERS
} SAFE FOR HOTWORK

ATMOSPHERIC TEST 20.8% O_2
0% LEL

PROVIDE VENTILATION DURING ALL ENTRY BY WORKERS

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of the Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed [illegible] Company 4-27-97 Date

Signed [illegible] Marine Chemist Cert. 626

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

P. O. BOX V · FREEPORT, TX 77542 FAX (409) 299-0055

SERIAL NO. H34527

LARRY	HERCULES	26 APR97
Survey Requested by	Vessel Owner or Agent	Date
ETT 112	TANK BARGE	HERCULES
Vessel	Type of Vessel	Specific Location of Vessel
BUTANOL	LEL-O_2-VISUAL	16:00
Last Three (3) Cargoes	Tests Performed	Time Survey Completed

BOW RAKE
STERN BOX
WING TANKS No 1, 2, 3 & 4 - PORT & STARBOARD
CARGO TANKS No 1, 2 & 3

} SAFE FOR WORKERS
} SAFE FOR HOTWORK

ATMOSPHERIC TEST 20.8% O_2
0% LEL

PROVIDE VENTILATION DURING ALL ENTRY BY WORKERS

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so effected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 8-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed, and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate, and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed or issued subject to compliance with all qualifications and instructions.

Signed [signature] Name 4-27-97 Company Date

Signed [signature] Marine Chemist Certificate 626

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR ORDER No. _____

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

DATE

ORDER WRITTEN: 4-26-97 | ETA:

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☑

NAME: ETT 112

LBA: | WIDTH:

FOREMAN: C. Duarte

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE:

PHONE NUMBER:

WORK AUTHORIZED BY: | CITY AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 Deballast / Strip & Blow Dry Air Gas Free for Chemical
Inspection. Reballast ~~Before~~ Bow Rake (to Normal
2 Ballast) before releasing to M/V Brown Water IV

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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Clovis Duarte Date: 4-26-97

4-5497
ETT 112

BASF
4-27-96

DAILY TIME LOG

DATE:	4-28-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT 112

START TIME 7:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
D. Guel	8	8			

MATERIAL LIST:
Cutting Rig, Cherry Picker
½" X 6' X 7'6" plate

JOB DESCRIPTION:
Crop damaged knuckle, Angle Iron and Stiffeners

DAILY TIME LOG

DATE:	4-29-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
SAM PETTIT	2	2			

MATERIAL LIST:

JOB DESCRIPTION:

CHECK BARGE FOR SAFE ENTRY AND HOT WORK

DAILY TIME LOG

DATE:	4-30-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
D. GUEL	8	8			
L. NAJERA	2 / 8	10			
BEN MOLINA	1 1/2 / 8	9 1/2			
PEDRO ARAUA	2 / 8	10			
SAM PETIT	2	2			

MATERIAL LIST:

JOB DESCRIPTION:

FIT AND WELD

CHECK BARGE FOR FUTRY AND HOT WORK

DAILY TIME LOG

DATE:	5-1-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
L. NAJERA	2.5	2.5			
I. SILVA	6	6			
D. GUEL	2.5	2.5			
R. NAJERA	6	6			
R.S. Pettit	2	2			

MATERIAL LIST:

JOB DESCRIPTION:

FINISH WELDING
AIR TEST BOW RAKE

Check barge for entry and Hot Work

DAILY TIME LOG

DATE:	5-2-97	CUSTOMER:	BASF
JOB NO:	4-5497	BARGE:	ETT-112

START TIME _____ STOP TIME _____

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. PETTIT	2	2			
D. GUEL	1	1			
L. NAJERA	1	1			
D. HERNANDEZ	1	1			

MATERIAL LIST:

JOB DESCRIPTION:

CHECK BARGE FOR ENTRY AND HOT WORK
INSPECT BARGE WITH COAST GUARD

BASF Corporation

BASF

BASF BARGE SCHEDULE FOR HERCULES

April 18, 1997

April 19, 1997 – 0800 – Saturday

ETT 114 – Deballast and release to Brown Water IV.

4,5488

April 21, 1997 – 0800 – Monday

ETT 112 – Deballast and release to Brown Water IV. Strip and blow and gas free. etc.

ETT 115 – Deballast and release to Brown Canal.

602 Copper Road, Freeport, Texas 77541 (409) 238-6100

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 4-5488

MARINE OPERATIONS FACILITY

DATE	
ORDER WRITTEN	4-21-97
ETA	0800
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

CUSTOMER	
NAME	BASF
BILLING ADDRESS	
CITY AND STATE	FREEPORT, TX
PHONE NUMBER	

M/V ☐ BARGE ☒

NAME: ETT 112

LOA: | WIDTH:

FOREMAN: DUARTE

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

WORK AUTHORIZED BY: SUZEITE | O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 DEBALLAST [redacted] and
Release to Brown Water IV.

2 Strip + Blow + gas free (Chemist - 4-21-3:30 P.M.)

3 Weld fracture in bow rake.

4 Weld 'Dog' (or lug) on wing tank #7.

5

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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HERCULES
MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3797

DATE : March 6, 1997

Job No. : 3-5431

Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the ETT 112 as follows:

Start loading truck (6) onto barge.
Ballast wing tank #4 to level out barge for transport.
Strip and blow dry one pump out,wing tank #1,2,3,4.

LABOR:	Leadman	12 Hrs.	@	35.00(ST)	$ 420.00
	Leadman	4 Hrs.	@	49.50(OT)	$ 198.00
	Journeyman	23.5 Hrs.	@	32.50(ST)	$ 763.75
	Journeyman	4 Hrs.	@	45.75(OT)	$ 183.00
STOCK:	$45.00	Plus 25%	@	11.25	$ 56.25
EQUIPMENT:	Compressor	5 Hrs.	@	48.00/Hr.	$ 240.00
	Air Movers	20 Hrs.	@	5.00/Hr.	$ 100.00
	Vacuum	3 Hrs.	@	30.00/Hr.	$ 90.00
	Hand Hose	3 Hrs.	@	12.00/Hr.	$ 36.00
	2" Strip Pump	3 Hrs.	@	15.00/Hr.	$ 45.00
				TOTAL AMOUNT DUE	$ 2,132.00

PHONE: (409) 233-6371

DAILY TIME LOG

DATE:	3-6-97	CUSTOMER:	BASF
JOB NO:	5431	BARGE:	Ettelle

START TIME 9:00 AM STOP TIME 2:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5	5			
Carson	5	5			
Cruz	5	5			
Rivera	5	5			
Quinstan	5	5			

MATERIAL LIST:

JOB DESCRIPTION:
Strip + Blow Dry / Pump out w/ #1, 2, 3, 4

25 hrs

DAILY TIME LOG

DATE:	3-7-97	CUSTOMER:	BASF
JOB NO:	5431	BARGE:	Ett=112

START TIME 1:00 PM. STOP TIME 8:30

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	4 / 3 1/2	7 1/2			
Rivera	4 / 3 1/2	7 1/2			
Sam	3 1/2	3 1/2			

MATERIAL LIST:

JOB DESCRIPTION:
Start loading truck (6) gate; Barge (Analon).
Ballast w/#4; to level out Barge for transport.

18.5 hrs

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 3-6-97 Job No: _____ Barge/M/V: Ettrelle

EQUIPMENT	HOURS
Compressor	6
Air Movers	20
Vacuum	3
Steam Rig	
Hand Hose	3
Roller	
2" Strip Pump	3
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

JOB WORKSCOPE/BREAKDOWN

Job Number: 3-5421 Date: _____ Invoice Number: 3797

Customer: BASF Barge/~~MV~~: EH 112

Travel Time: _____ Hours @ $17.50/Hr = _____ Mileage: _____ @$.25/Mi = _____

Foreman:		Hours (ST)	@	$ 38.00/Hour	
		Hours (OT)	@	$ 53.25/Hour	
Leadman:	12	Hours (ST)	@	$ 35.00/Hour	420.00
	4	Hours (OT)	@	$ 49.50/Hour	198.00
Journeyman:	23 1/2	Hours (ST)	@	$ 32.50/Hour	763.75
	4	Hours (OT)	@	$ 45.75/Hour	183.00

DISPOSAL:

Slop Oil		Gallons	@	$ 0.60/Gallon	
Water		Gallons	@	$ 0.35/Gallon	
WATER:		Gallons	@	$ 5.00/1,000 Gallons	

MATERIAL:		Plus 25%		=
STOCK:	45.00	Plus 25%	11.25	= 56.25
CHEMIST:		Plus 25%		=

EQUIPMENT:

Compressor	5	Hours	@	$ 48.00/Hour	240.00
Air Movers	20	Hours	@	$ 5.00/Hour	100.00
Vacuum	3	Hours	@	$ 30.00/Hour	90.00
Hand Hose	3	Hours	@	$ 12.00/Hour	36.00
2" Strip Pump	3	Hours	@	$ 15.00/Hour	45.00
3" Gas Pump		Hours	@	$ 18.00/Hour	
Hand Tools		Each	@	$ 10.00 Each	
Weld Machine		Hours	@	$ 15.00/Hour	
Cutting Rig		Hours	@	$ 8.00/Hour	
Haul Out		Each	@	$1,100.00 Each	
Forklift		Hours	@	$ 30.00/Hour	
Tugboat		Hours	@	$ 100.00/Hour	
Steam Rig		Hours	@	$ 100.00/Hour	
Cherry Picker		Hours	@	$ 70.00/Hour	
Crane		Hours	@	$ 130.00/Hour	
Butterworth		Hours	@	$ 10.00/Hour	
4" Elec Pump		Hours	@	$ 15.00/Hour	
Truck		Hours	@	$ 25.00/Hour	

MATERIAL COST:

Coveralls	2	@ 3.50 Ea.=	7.00	Batteries	2	@ 3.00 Ea.=	6.00
Respirator	4	@ 6.00 Ea.=	24.00	Gloves/Rbr		@ 3.00 Ea.=	
Flashlights		@12.00 Ea.=		Gaskets		@ 6.00 Ea.=	
Goggles	2	@ 4.00 Ea.=	8.00	Boots		@12.00 Pr.=	
Raincoats		@40.00 Ea.=		White Rags		@20.00/Box=	
Lantern		@13.00 Ea.=		Cleaner		@75.00 =	

TOTAL INVOICE: $2,132.00

DECLARATION OF INSPECTION
PRIOR TO BULK CARGO TRANSFER

VESSELS ETT - 112

TRANSFER FACILITY Hercules Marine Service
LOCATION Freeport

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items are provided to indicate that the detailed requirement has been met.

	Deliverer	Receiver
1. Communication System/Language Fluency (156.120) (m) (p)	LC	N
2. Warning Signs and red Warning Signals (35.35-30)	LC	N
3. Vessels Moorings. (156.120 (d))	LC	N
4. Transfer System Alignment (156.120 (d))	LC	N
5. Transfer System: unused components (156.120 (e))	LC	N
6. Transfer Systems; fixed piping (156.120 (f))	LC	N
7. Overboard Discharges/See Suction Valves (156.120 (g))	LC	N
8. Hoses or Loading Arms condition (156. (h) 156.170)	LC	N
9. Hoses; length and support (156.120 (b) (c))	LC	N
10. Connections (156.130)	LC	N
11. Discharge Containment Systems (156.120 (1) (1))	LC	N
12. Stoppers or Drains (156.120 (k))	LC	N
13. Emergency Shutdown (156.120 (n))	LC	N
14. Repair Work Authorization (35.35-30)	LC	N
15. Boiler and Galley Fires Safety (35.35-30)	LC	N
16. Fires or Open Flames (35.35-30)	LC	N
17. Lighting (sunset to sunrise) (156.120 (T))	LC	N
18. Safe Smoking Spaces (35.35-30)	LC	N
19. Spill and Emergency Shutdown procedures (156.120 (q))	LC	N
20. Sufficient Personnel (156.120 (o) (a))	LC	N
21. Transfer Conferences (156.120 (q))	LC	N
22. Agreement to begin transfer (156.120 (r))	LC	N

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them. I have indicated that the regulations have been complied with.

Person in Charge of Receiving Unit	Title	Time and Date
[signature]	TKman	1245 3-7-97

Person in Charge of Delivering Unit	Title	Time and Date
[signature]	Dockman	1245 - 3-7-97

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 3-5431

DATE

ORDER WRITTEN 3-6-97	ETA 0800
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

N/V ☐ BARGE ☒

NAME ETT 112

LOA | WIDTH

FOREMAN

LAST PRODUCT

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME BASF

BILLING ADDRESS

CITY AND STATE FREEPORT, TX

ISSUE NUMBER

WORK AUTHORIZED BY R. PETERS | O/T AUTHORIZED BY

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW DRY IN PREPARATION FOR LOADING ANOLON.

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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 3-5431

MARINE OPERATIONS FACILITY

DATE	
ORDER WRITTEN	3-6-97
ETA	0800
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	
M/V ☐ BARGE ☒	
NAME	EIT 112
LOA	
WIDTH	
FOREMAN	
LAST PRODUCT	
GAS FREEING	YES ☐ NO ☐
CERTIFICATE REQUIRED	YES ☐ NO ☐
HAUL OUT FOR INSPECTION AND REPAIR	YES ☐ NO ☐
ON WAYS	DATE:
ON WAYS	DATE:

CUSTOMER	
NAME	BASF
BILLING ADDRESS	
CITY AND STATE	FREEPORT, TX
PHONE NUMBER	
WORK AUTHORIZED BY	R. PETERS
O/Y AUTHORIZED BY	
STOCK MATERIAL	☐ YES ☐ NO
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET	
OUTSIDE SERVICES IF YES, LIST	☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW DRY IN PREPARATION FOR LOADING AMILON.

unload (6) six trucks off Amilon.

2 Ballast #4 wing tank to level out Barge.

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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudio Acosta Date: 3-6-97

OFFS OHF CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 3-6-97

CARGO: Ettzi12

NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ✓

GATE VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO ✓

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

DEEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY Cruz

DRIP PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY N/A

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Charles Duarte

WITNESS: [illegible]

CHECK VALVE GASKET WILL BE REPLACED
AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING CARGO.

DECLARATION OF INSPECTION
PRIOR TO BULK CARGO TRANSFER

VESSELS: BASF
ETT2112

TRANSFER FACILITY: HERCULES MARINE GAS FREE DOCK

LOCATION: FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.120)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Spill and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person In Charge Receiving Unit	TITLE	TIME & DATE
Claudio Duarte	FOREMAN	3-6-97 - 9:00 AM

Person In Charge Delivering Unit		
Claudio Duarte	FUEL PERSON	

TIME COMPLETED 3-6-97 - 2:30PM

* Rules and Regulations for Tank Vessels.

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 3-6-97

Plant Hercules

Area: HAS Free Dock

Eff=112

Supervisor [illegible]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

H-Butanol

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
Jose A Casas			
[illegible]			
Lyno Cruz			

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

FLAMMABLE LIQUID
DOT: NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date cited, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and/or conditions [illegible] of [illegible] warranty [illegible] suitability for specific end uses prior to use.

JOB NO. _____ BARGE CLEANING REPORT

BARGE NO. ETR-112

CUSTOMER BASF

PRODUCT N-Butanol

ETA _____

DATE/TIME ARRIVAL 3-6-97 9:

DATE/TIME STARTED 3-6-97 9:

DATE/TIME COMPLETE 3-6-97 2:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: C. Duarte

BARGE RELEASED TO: _____ DATE/TIME: 1:30 PM

DECKWELL OPENED: YES N/A NO ____ CLOSED BY _____ DATE/TIME: _____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY _____ NEW CASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY _____ NEW CASKET ____ YES ____

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT NEW CASKET ____ YES ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASES

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASES NEW CASKET ____ YES ✓ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 65 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

SUMP INSPECTED _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 03/06/97

Inspector By _____

1400 Time In

1450 Time Out

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT INSPECTED IT & RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS REPORT.

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-112	MTY	HERCULES	03-06-97

Tank Number	1C	2C	3C				
Tank Coating	SOFT STEEL	SOFT STEEL	SOFT STEEL				
Last Cargo	BUTANOL	BUTANOL	BUTANOL				
Second Last Cargo							
Third Last Cargo							
Time/Date Inspected	1410 03-6-97						
Visual Cleanliness Accepted/Rejected*	ACCEPTED						
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1C	STRIPPED + BLOWN
	TK# 2C	STRIPPED + BLOWN
	TK# 3C	STIPPED + BLOW
	TK#	
	TK#	* NOTE * ALL TANK CLEANED the SAME *
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94

for Hercules

FOR CALEB BRETT

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-112 & ETT-115	MTY	Hercules	3-06-97

MONTH	DAY	HOUR	EVENT
03	06	1400	Inspector arrived for visual
		1410	Started barge Insp. ETT-112
		1420	Finished ETT-112 Inspection
		1425	Started barge Inspection ETT-115
		1435	Completed barge visual Inspection ETT-115
		1445	Paper work complete

For Vessel

FOR CALEB BRETT U.S.A., INC.

FORM # 2-044-93

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3796
DATE : March 6, 1997
Job No. : 3-5430
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the EIT 114 as follows:

Remove pump from old mount, fit and weld new mount plate, install pump. Weld broken welds and fractures, using boat for welding off of at bow rake. Weld fracture at stern box. Strip and blow dry. Gas free for chemist inspection.

LABOR:	Leadman	7.5 Hrs.	@	35.00 (ST)	$ 262.50
	Leadman	8.5 Hrs.	@	49.50 (OT)	$ 420.75
	Journeyman	21 Hrs.	@	32.50 (ST)	$ 682.50
	Journeyman	26 Hrs.	@	45.75 (OT)	$ 1,189.50
STOCK:	$77.00	Plus 25%	@	19.25	$ 96.25
CHEMIST:	$300.00	Plus 25%	@	75.00	$ 375.00
EQUIPMENT:	Compressor	5 Hrs.	@	48.00/Hr.	$ 240.00
	Air Movers	20 Hrs.	@	5.00/Hr.	$ 100.00
	Vacuum	3 Hrs.	@	30.00/Hr.	$ 90.00
	Hand Hose	4 Hrs.	@	12.00/Hr.	$ 48.00
	Tugboat	1 Hr.	@	100.00/Hr.	$ 100.00
	Cherry Picker	3 Hrs.	@	70.00/Hr.	$ 210.00
MATERIAL:	$57.00	Plus 25%	@	14.25	$ 71.25
				TOTAL AMOUNT DUE	$ 3,885.75

PHONE: (409) 233-6371

DAILY TIME LOG

DATE:	3-6-97	CUSTOMER:	BASF
JOB NO:	5430	BARGE:	Ett-114

START TIME 3:30 PM STOP TIME 9:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5 1/2	4 1/2			
Cano	5 1/2	4 1/2			
Quintero	5 1/2	4 1/2			
Cruz	5 1/2	4 1/2			
Rivera	5 1/2	4 1/2			

MATERIAL LIST:

JOB DESCRIPTION:

Strip Blow & Ay. Didn't finish on this day, because of weather condition didnot permit (foggy).

27.5

DAILY TIME LOG

DATE:	3-7-97	CUSTOMER:	BASF
JOB NO:	5430	BARGE:	Eft=114

START TIME 7:00 AM STOP TIME 9:00 AM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
CLAUDIO	2 ✓				
CASAS	2				
CRUZ	2				
RIVERO	2				
Quintero	2				

MATERIAL LIST:
Used two (2) 8" Gaskets for Pump.

JOB DESCRIPTION:
continued on job procedure. Chemist - Inspection and remove set up from Barge.

10✓

DAILY TIME LOG

DATE:	3-7-97	CUSTOMER:	BASF
JOB NO:	3-5430	BARGE:	ETT 114

START TIME 10:30 AM STOP TIME 2:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
D. Hernandez	~~4.5~~ 4	8.5			
D. Guel	~~4.5~~ 4	8.5			
D. Duarte	~~4.5~~ 4	8.5			

MATERIAL LIST:
Cherry Picker, Cutting Rig, Weldmachine, M/V Gaylynn

JOB DESCRIPTION:
Remove pump from old mount, fit and weld new mount plate, install pump, weld broken welds and fractures, using boat for welding off afatbow rake, weld fracture at stern box

25.5

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 3-6-92 Job No: 5430 Barge/M/V: Ett 114

EQUIPMENT	HOURS
Compressor	5
Air Movers	20
Vacuum	3
Steam Rig	
Hand Hose	4
Roller	
2" Sump Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	4
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

HERCULES
MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer O
Freeport, Texas 77541

Office (409) 233-6371
Fax. (409) 233-6375

Date: 3-2-97 Job No: 3-5430 Barge/M/V: Ett 114

EQUIPMENT	HOURS
Compressor	
Air Movers	
Vacuum	
Steam Rig	
Hand Hose	
Boiler	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	3
Forklift	
Tug Boat	1
Welding Machine	4
Cutting Rig	4
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

N/C
N/C

STOCK	NUMBER
Coveralls	
Batteries	
Respirator Filters	
Gloves	
Flashlights	
Gaskets	
Goggles	
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

JOB WORKSCOPE/BREAKDOWN

Job Number: 3-5430 Date: 3-7-97 Invoice Number: _____

Customer: BASF Barge/~~MV~~: ETT 114

Travel Time: _____ Hours @ $17.50/Hr = _____ Mileage: _____ @$.25/Mi = _____

Foreman:	_____	Hours (ST)	@	$ 38.00/Hour	_____
	_____	Hours (OT)	@	$ 53.25/Hour	_____
Leadman:	7 1/2	Hours (ST)	@	$ 35.00/Hour	262.50
	8 1/2	Hours (OT)	@	$ 49.50/Hour	420.75
Journeyman:	21	Hours (ST)	@	$ 32.50/Hour	682.50
	26	Hours (OT)	@	$ 45.75/Hour	1189.50

DISPOSAL:

Slop Oil	_____	Gallons	@	$ 0.60/Gallon	_____
Water	_____	Gallons	@	$ 0.35/Gallon	_____

WATER:	_____	Gallons	@	$ 5.00/1,000 Gallons	_____
MATERIAL:	57.00	Plus 25%	14.25	=	71.25
STOCK:	77.00	Plus 25%	19.25	=	96.25
CHEMIST:	300	Plus 25%	75	=	375.00

EQUIPMENT:

Compressor	5	Hours	@	$ 48.00/Hour	240
Air Movers	20	Hours	@	$ 5.00/Hour	100
Vacuum	3	Hours	@	$ 30.00/Hour	90
Hand Hose	4	Hours	@	$ 12.00/Hour	48
2" Strip Pump	_____	Hours	@	$ 15.00/Hour	_____
3" Gas Pump	_____	Hours	@	$ 18.00/Hour	_____
Hand Tools	_____	Each	@	$ 10.00 Each	_____
Weld Machine	_____	Hours	@	$ 15.00/Hour	_____
Cutting Rig	_____	Hours	@	$ 8.00/Hour	_____
Haul Out	_____	Each	@	$1,100.00 Each	_____
Forklift	_____	Hours	@	$ 30.00/Hour	_____
Tugboat	1	Hours	@	$ 100.00/Hour	100
Steam Rig	_____	Hours	@	$ 100.00/Hour	_____
Cherry Picker	3	Hours	@	$ 70.00/Hour	210
Crane	_____	Hours	@	$ 130.00/Hour	_____
Butterworth	_____	Hours	@	$ 10.00/Hour	_____
4" Elec Pump	_____	Hours	@	$ 15.00/Hour	_____
Truck	_____	Hours	@	$ 25.00/Hour	_____

MATERIAL COST:

Coveralls	2	@ 3.50 Ea.=	7.00	Batteries	2	@ 3.00 Ea.=	6.00
Respirator	4	@ 6.00 Ea.=	24.00	Gloves/Rbr	4	@ 3.00 Ea.=	12.00
Flashlights	_____	@12.00 Ea.=	_____	Gaskets	_____	@ 6.00 Ea.=	_____
Coggles	2	@ 4.00 Ea.=	8.00	Boots	_____	@12.00 Pr.=	_____
Raincoats	_____	@40.00 Ea.=	_____	White Rags	_____	@20.00/Box=	_____
Lantern	_____	@13.00 Ea.=	_____	Cleaner	_____	@75.00 =	_____

3885.75 *TOTAL INVOICE:* 3883.50

41

HERCULES OFFSHORE CO.

INVOICE NO. 3796

MARINE REPAIR
ORDER No. 3-5430

MARINE OPERATIONS FACILITY

CUSTOMER P.O.

DATE		
ORDER WRITTEN	3-6-97	ETA 0800
ARRIVAL		
COMPLETION DATE		
DEPARTURE DATE		

CUSTOMER	
NAME	BASF
BILLING ADDRESS	
CITY AND STATE	FREEPORT, TX
PHONE NUMBER	

M/V ☐ BARGE XX
NAME ETT 114
LOA
WIDTH
FOREMAN
LAST PRODUCT

WORK AUTHORIZED BY: R. PETERS
CITY AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE:

ON WAYS DATE:

ITEM NUMBERS

1 CONTACT MCGILL, THEY WERE SUPPOSE TO BUILD A MOUNT REPLACEMENT FOR THE PUMP TO SIT ON. WELD TO NEW MOUNT SO THAT THE PUMP WILL SIT EVEN.

2 CHECK ENTIRE BARGE FOR ANY OTHER REPAIRS (LARGE OR SMALL) THAT MAY BE NEEDED. MAILBOX, MOTOR COVER, GIVE THE BARGE A THOROUGH GOING OVER.

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

ERIC L. MOORE MARINE CHEMIST OFFICE (713) 520-5478
P. O. BOX V - FREEPORT, TX 77542 FAX (409) 299-6655

MARINE CHEMIST CERTIFICATE

SERIAL NO. G 78952

JUAN Survey Requested by	HERCULES Vessel Owner or Agent	7 MAR 97 Date
ETT-114 Vessel	TANK BARGE Type of Vessel	HERCULES Specific Location of Vessel
CYCLOHEXANE Last Three (3) Cargoes	LEL-0 - PID - VISUAL Tests Performed	07:30 Time Survey Completed

CARGO TANKS No 1, 2 & 3
WING TANKS No 1, 2, 3 & 4 - PORT & STARBOARD
BOW RAKE
STERN BOX

} SAFE FOR WORKERS
} SAFE FOR HOTWORK

ATMOSPHERIC TEST 20.8% O_2
0% LEL
PID - 0 PPM VOC

3-5430

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist

QUALIFICATIONS: Movement of vessels from original location, transfer of ballast, or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2):

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated, (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT: This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued

Signed _____ Signature _____ Company _____ Date _____

This Certificate is based on conditions existing at the time the inspection hereon set forth was completed and is issued subject to compliance with all qualifications and restrictions

Signed _____ Marine Chemist _____ Certificate No. _____

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88 Printed in U.S.A.

VESSEL POSTING

3-5430
EIT 114

BASF
3-6-97

OFFSHORE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 3-6-97

BARGE: Ett=114

VALVE NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ✓

GATE VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO ✓

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

DEEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY Cruz

DRIP PANS COVER: CLOSED BY Cruz

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY Rivera

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Claudio Duarte

WITNESS: L. Rivera

CHECK VALVE GASKET WILL BE REPLACED
AIR TEST IS LAST THING TO BE DONE BEFORE REPLACING BARGE.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS BASF
Ettelin

TRANSFER FACILITY Hercules Marine Gas Free Dock

LOCATION FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.120)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Spill and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
Claudio Duarte	Foreman	3-6-97 3:30PM

Person in Charge Delivering Unit		
Claudio Duarte	FUEL PERSON	

TIME COMPLETED 3-6-97 9:00PM

* Rules and Regulations for Tank Vessels.

JOB NO. 5430

BARGE NO. Ettelu

CUSTOMER BASF

PRODUCT N-BUTANOL

BARGE CLEANING REPORT

ETA

DATE/TIME ARRIVAL 2-6-97 2:10

DATE/TIME STARTED 3-6-97 3:3

DATE/TIME COMPLETE 3-7-97 7:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: Duarte

BARGE RELEASED TO: Brow Carol DATE/TIME: 3-7-97 6:30

DECKWELL OPENED: YES N/A NO ____ CLOSED BY ____ DATE/TIME: ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ✓

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT ____ YES ____ NO ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASAS NEW CASKET ____

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____ YES ____ NO ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD.

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 65 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: no PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____

VOIDS: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

SUMP INSPECTED ✓ SAFETY EQUIPMENT USED: ____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the barge's foreman in charge to sign. The foreman will put the copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 3/7/97

1800
Time In

1835
Time Out

Inspected By JC

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT INSPECTED & RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS REPORT.

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-114	CAPROLACTAM EXTRACT	HERCULES	3/7/97

Tank Number	1-CENTER	2-CENTER	3-CENTER				
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL				
Last Cargo	99.9% CYCLO	99.9% CYCLO	99.9% CYCLO				
Second Last Cargo	-	-	-				
Third Last Cargo	-	-	-				
Time/Date Inspected	1825 3/7/97	1825 3/7/97	1825 3/7/97				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	ACCEPTED	ACCEPTED				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1C	STRIPPED & BLOWN
	TK# 2C	STRIPPED & BLOWN
	TK# 3C	STRIPPED & BLOWN
	~~TK#~~ LINES	STRIPPED & BLOWN
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

* [signature]

[signature]
FOR CALEB BRETT

Form # 2-056-94

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

TIME LOG

SSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-114	VISUAL CAPROLACTAM EXTRACT	HERCULES	3/7/97

MONTH	DAY	HOUR	EVENT
MARCH	7	1720	INSPECTOR NOTIFIED
		1800	INSPECTOR ARRIVED
		1810	COMMENCED INSPECTION
		1825	COMPLETED INSPECTION - ALL LINES BLOWN
		1835	INSPECTOR DEPARTED

For Vessel

FOR CALEB BRETT U.S.A., INC.

FORM # 2-044-93

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 3-6-87

Plant Hercules

Area EPS Free Dock

EXT=114

Supervisor [illegible]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

N. BUTANOL

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
Ygoro Cruz			
[illegible] Rivera			
Jose A Casas			
[illegible] Smith			

(1-202-483-7616 OUTSIDE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

FLAMMABLE LIQUID
DOT NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date indicated, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and/or conditions [illegible] assumes no responsibility concerning the accuracy, appropriateness and suitability for specific end uses prior to use.

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 3-5430

DATE	
ORDER WRITTEN	3-6-97
ETA	0800
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	
M/V ☐ BARGE ☒ NAME	ETT 114
LOA	
WIDTH	
FOREMAN	
LAST PRODUCT	
GAS FREEING YES ☐ NO ☐	CERTIFICATE REQUIRED YES ☐ NO ☐
HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐	
ON WAYS	DATE:
ON WAYS	DATE:

CUSTOMER	
NAME	BASF
BILLING ADDRESS	
CITY AND STATE	FREEPORT, TX
PHONE NUMBER	
WORK AUTHORIZED BY	R. PETERS
CITY AUTHORIZED BY	
STOCK MATERIAL	☐ YES ☐ NO
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET	
OUTSIDE SERVICES IF YES, LIST	☐ YES ☐ NO

ITEM NUMBERS

1 CONTACT MOGILL, THEY WERE SUPPOSE TO BUILD A MOUNT REPLACEMENT FOR THE PUMP TO SIT ON. WELD TO NEW MOUNT SO THAT THE PUMP WILL SIT EVEN.

2 CHECK ENTIRE BARGE FOR ANY OTHER REPAIRS (LARGE OR SMALL) THAT MAY BE NEEDED. MAILBOX, MOTOR COVER, GIVE THE BARGE A THOROUGH GOING OVER.

3 Strip + Blow Dry / Gas Free for Chemist Inspection

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudia Escalante Date: 3-6-97

2-5405
ETT 113

BASF
2-22-97

Job Workscope/Breakdown

Job No: 5405 Date: 2-22-97 Invoice Number: 3771

Customer: Bass Barge/~~M/V~~: EH 113

Foreman:	S/T		@	38.00	
	O/T		@	53.25	
Leadman:	S/T	11 1/2	@	35.00	402.50
	O/T		@	49.50	
Journeyman:	S/T	59 1/2	@	32.50	1,933.75
	O/T		@	45.75	
Disposal:	Slop Oil		@	0.60	
	Water		@	0.35	
Water:		70,000	@	5.00/1,000 gal	350.00
Material:			Plus 25%		
Stock:		70.60	Plus 25%	17.65	88.25
Chemist:		300	Plus 25%	75.00	375.00
Equipment:	Compressor	6	@	48.00	288.00
	Air Movers	24	@	5.00	120.00
	Forklift		@	30.00	
	Tugboat		@	100.00	
	Steam Rig		@	100.00	
	Vacuum	4	@	30.00	120.00
	Hand Hose	4	@	12.00	48.00
	Weld Machine		@	15.00	
	Cherry Picker		@	70.00	
	Crane		@	130.00	
	3" Gas Pump	2	@	18.00	36.00
	2" Strip Pump	2	@	15.00	30.00
	Butterworth		@	10.00	
	4" Elec. Pump		@	15.00	
	Cutting Rig		@	8.00	
	Haul Out		@	1,100.00	
	Truck		@	25.00	
	Hand Tools		@	10.00	

Total Invoice: ~~$3,441.50~~ $3,751.50

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3771
DATE : Feb. 22, 1997
Job No. : 2-5405
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the ETT 113 as follows:

Strip and blow dry. Check for fractures. Chemist. COI Inspection. Deballast stone rake. Replaced two wing nuts and bolts of hatch. Grease all wing bolts and nuts on hatches. Test vapor line; cargo line for inspection. Repair emergency shut off cable (stuck on wheel).

LABOR:	Leadman	11.5 Hrs.	@	35.00 (ST)	$ 402.50
	Journeyman	59.5 Hrs.	@	32.50 (ST)	1,933.75
WATER:	70,000 Gallons		@	5.00/1,000 Gals.	350.00
STOCK:	70.60	Plus 25%	@	17.65	88.25
CHEMIST:	300.00	Plus 25%	@	75.00	375.00
EQUIPMENT:	Compressor	6 Hrs.	@	48.00	288.00
	Air Movers	24 Hrs.	@	5.00	120.00
	Vacuum	4 Hrs.	@	30.00	120.00
	Hand Hose	4 Hrs.	@	12.00	48.00
	3" Gas Pump	2 Hrs.	@	18.00	36.00
	2" Strip Pump	2 Hrs.	@	15.00	30.00
				TOTAL AMOUNT DUE	$ 3,791.50

PHONE: (409) 233-6371

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 2-22-97 Job No: _____ Barge/M/V: Ett-113

EQUIPMENT	HOURS
Compressor	6
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Roller	
2" Sump Pump	
3" Diesel Pump	2
4" Electric Pump	2
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER	
Coveralls	4	14.20
Batteries	2	4.50
Respirator Filters	4	24.00
Gloves		
Flashlights	1	12.00
Gaskets		
Goggles	2	5.90
Boots		
Raincoats		
White Rags		

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 12-22-97 Job No: _____ Barge/M/V: Ett-113

EQUIPMENT	HOURS
Compressor	6
Air Movers	24
Vacuum	4
Steam Rig	
Hand Hose	4
Roller	
2" Sump Pump	2
3" Diesel Pump	2
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	4
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	1
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

DAILY TIME LOG

DATE:	2-24-97	CUSTOMER:	BASF
JOB NO:		BARGE:	EXT=113

START TIME 8:00AM STOP TIME 12:00PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	4				
Quintero	4				
Cesar	4				
Cruz	4				

MATERIAL LIST:

JOB DESCRIPTION:

Grease all wing bolts + nut on hatch.
Test vapor + cargo line.

DAILY TIME LOG

DATE:	2-22-97	CUSTOMER:	BASF
JOB NO:		BARGE:	EXT=113

START TIME 7:30 STOP TIME 3:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	7½				
Cuan	6				
Quinton	6				
Cass	6				
River	6½				

MATERIAL LIST:

JOB DESCRIPTION:

Strip & Blow Day (for Coast Guard Inspection)
Check for Exterior Fractures. Deballast Stern Box to
Weld (1) one Fracture on Port Side wall 5" off knuckle.
Replaced (2) two Wing Bolt & Nuts.

DAILY TIME LOG

DATE:	2-26-97	CUSTOMER:	BASF
JOB NO:	2-5405	BARGE:	ETT 113

START TIME 10:30 AM STOP TIME 2:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	3	3			
D. Hernandez	1	1			

MATERIAL LIST:

JOB DESCRIPTION:
CG Inspection – Repair Sight glass cover – do paper work

DAILY TIME LOG

DATE:	2-22-97	CUSTOMER:	BASF
JOB NO:	2-5405	BARGE:	ETT 113

START TIME 7:30 STOP TIME 4:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	5.5	5.5			
D. Guel	7.5	7.5			
L. Najera	3	3			

MATERIAL LIST:
White paint, Small paint brush, M/V Gaylynn, Welding Machine and Chemist

JOB DESCRIPTION:
Check barge for fractures, Check CG documents, found some fracture Clean barge - Strip & blow, Chemist Checks barge for Safe Entry and Hot-work, Welder weld fracture, Used M/V Gaylynn for painting draft Marks

DAILY TIME LOG

DATE:	2-24-97	CUSTOMER:	BASF
JOB NO:	2-5405	BARGE:	ETT 113

START TIME 8:00 AM STOP TIME

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S.Pettit	3	3			
J. Rivera					

MATERIAL LIST:
Air Compressor, High level Alarm tester, Sprayer with Soap,

JOB DESCRIPTION:
Start Engine on barge - Check Emergency Shut down; Cable locked In tubing - Cleaned tubing and oiled pulleys. tighten fan belts on Engine - Check high level Alarm. Vapor tighten test

76882

PARTNERS, INC. / (409) 297-9934

BEACH BAIT & TACKLE, INC.
P. O. Box 2025
1601 E. Hwy 332
Freeport, Texas 77541
(409) 233-7351
(713) 393-1597

138893

Date 2/25 19 97

Name CASH

Acct No. _____ Clerk _____

ACCOUNT FORWARD		99
BATTERIES	6	
	TX	24
		7 53
PD		

Your account stated to date - if error is found return at once

Batteries for High level alarm tester

Sam

MARINE VESSELS VAPOR TIGHTNESS DOCUMENTATION

REQUIRED BY SUBPART BB - NATIONAL EMISSION STANDARDS FOR BENZENE EMISSIONS FROM BENZENE TRANSFER OPERATIONS, SECTION 61.300 - 61.306

1) TEST METHOD CONDUCTED: Air Pressure

2) MARINE VESSEL OWNER: Dixie Carriers, Inc.

ADDRESS: 1209 Orange St, Wilmington, De 19801

3) MARINE VESSEL IDENTIFICATION NUMBER: Err 113 - D-530993

4) TESTING LOCATION: Hercules Marine, Freeport, Tx

5) DATE: 2-24-97 TIME: 10:00 Am

6) TESTER NAME: CLAUDIO DUARTE

COMPANY: Hercules Marine

7) SIGNATURE OF TESTER: Claudio Duarte

8) WITNESSING INSPECTOR: JUAN L. RIVERA

9) WITNESSING INSPECTOR SIGNATURE: Juan L. Rivera

10) AFFILIATION:

TEST RESULTS:

Pressured Cargo tanks #1, #2 and #3 to 1 P.S.I for 30 minutes had a loss of less than 0.050 P.S.I.

HERCULES
OFFSHORE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

TESTING OF CARGO LINES

DATE: 2-24-97

BARGE NO: ETT 113

MARINE IDENTIFICATION NO: D-530993

THE BARGE CARGO LINES WERE (NITROGEN) (AIR) (HYDRO) TESTED

TO: 125 LBS. LEAKS WERE FOUND YES ____ NO ✓

THIS TEST WAS CONDUCTED AT:

HERCULES OFFSHORE CORPORATION
MARINE DIVISION
P. O. DRAWER "O"
906 MARLIN ST.
FREEPORT, TEXAS 77541

CHECK LIST

GATE VALVE: NO. CHECKED: 5 COMMENTS: OK

BLIND: NO. CHECKED: 2 COMMENTS: OK

PLUG: NO. CHECKED: 1 COMMENTS: OK

SIGNATURE OF TESTER: Paulo Duarte

TITLE: FOREMAN

WITNESS: Juan L. Lerma

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 2-5405

MARINE OPERATIONS FACILITY

DATE

ORDER WRITTEN: 2-22-97

ETA:

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☒

NAME: ETT 113

LOA:

WIDTH:

FOREMAN:

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX 77541

PHONE NUMBER:

WORK AUTHORIZED BY:

CITY AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 COI INSPECTION.

Strip & blow dry.

2 Check for fractures.

Clean

3 Reballast — Store table.

Replaced two (2) wing nut & bolt of Hatch (w/f.)

4 Grease all wing bolts & nuts on hatches.

Test Vapor line, Cargo line for C.G. Inspection.

5 Repair emergency shut off cable (Stuck on wheel).

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudio Duarte Date: 2-22-97

OFFSHORE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 2-22-97

BARGE: Ett-113

VALVE NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ✓

GATE VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO ✓

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

DEEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY Casas

DRIP PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY Cruz

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Claudio Quirino

WITNESS: Juan L. Quirino

- CHECK VALVE GASKET WILL BE REPLACED
- AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS: BASF

ETT-115

TRANSFER FACILITY: HERCULES MARINE & GAS FRED DOCK

LOCATION: FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.130)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Spill and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
[illegible signature]	FOREMAN	2-22-97 7:30

Person in Charge Delivering Unit		
[illegible signature]	FUEL PERSON	

TIME COMPLETED 2-22-97 - 7:30

* Rules and Regulations for Tank Vessels.

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROCEDURE

Date 9-22-97

Plant Hercules Marine

Area GAS FREE DOCK

ETT-113

Supervisor [illegible]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

N. BUTANOL

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
Leon J. [illegible]			
Jason Cass			
Jose T. Casas			
Juan Rivera			

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

FLAMMABLE LIQUID
DOT NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date indicated, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and new conditions [illegible] contemplated [illegible] appropriateness and suitability for specific end uses prior to use.

FORM 10-0010 PRINTED 4-6-86

DOW CHEMICAL U.S.A.
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

R-04-01-81

JOB NO. _____ BARGE CLEANING REPORT

BARGE NO. Ett-113

CO[illegible] BASF

PRODUCT N. Butanol

ETA _____

DATE/TIME ARRIVAL 2-22-97-6:[illegible]

DATE/TIME STARTED 2-22-97-7:[illegible]

DATE/TIME COMPLETED 2-22-97-3[illegible]

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: _____

BARGE INSPECTED BY: C. Duarte

BARGE RELEASED TO: _____ DATE/TIME: 3:00

DECKWELL OPENED: YES N/A NO ____ CLOSED BY _____ DATE/TIME: _____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY _____ NEW GASKET ____ YES ✓

DECK HEADER BLINDS OPEN: Yes INSPECTED BY CALEB BRETT ____ YES ____ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOD

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: No PIPELINE BLOWN Yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____

SUMPS INSPECTED ✓ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 2/26/97

Inspected By _____

1415
Time In

1450
Time Out

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT INSPECTED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS REPORT.

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-113	VISMAL	HERCULES	2-26-97

MONTH	DAY	HOUR	EVENT
2	25	1400	INSPECTOR NOTIFIED
		1415	INSPECTOR ARRIVED
		1425	~~Be~~ BARGE INSPECTION COMPLETED
		1430	LINES BLOWN
		1435	PAPERWORK COMPLETED
		1450	INSPECTORS DEPARTED

of Vessel

FOR CALEB BRETT

FORM # 2-044-95

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE
OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT-113	VISMAL	Hercules	2-26-97

Tank Number	1-CENTER	2-CENTER	3-CENTER				
Tank Coating	MILD STEEL	MILD STEEL	MILD STEEL				
Last Cargo	Cyclo	Cyclo	Cyclo				
Second Last Cargo	↓	↓	↓				
Third Last Cargo	↓	↓	↓				
Time/Date Inspected	1430 2/26	1430 2/26	1430 2/26				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	ACCEPTED	ACCEPTED				
Reason for Rejection	—	—	—				

Method said to have been used to clean tanks:	TK# 1	STRIPPED & BLOWN
	TK# 2	" "
	TK# 3	" "
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett U.S.A., Inc. and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Juan L. Lerea

FOR CALEB BRETT

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 2-5405

MARINE OPERATIONS FACILITY

DATE	
ORDER WRITTEN	2-22-97
ETA	
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

CUSTOMER	
NAME	BASF
BILLING ADDRESS	
CITY AND STATE	FREEPORT, TX 77541
PHONE NUMBER	

M/V ☐ BARGE ☒

NAME: ETT 113

LOA: | BEAM:

FOREMAN:

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

WORK AUTHORIZED BY: | O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 COI INSPECTION.

Strip & blow dry.

2 Check for fractures.

Remove

3 Reballast - Store tkle.

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

2-5402
ETT 115

BASF
2-18-97

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3768
DATE : Feb. 18, 1997
Job No. : 2-5402
Location : Freeport, TX

TO: BASF
602 Copper Road
Freeport, TX 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR: Service to the ETT 115 as follows:

Strip and Blow. Purge cargo tanks with nitrogen.

LABOR:	Leadman	5 Hrs.	@	35.00	(ST)	$ 175.00
	Leadman	3.5 Hrs.	@	49.50	(OT)	173.25
	Journeyman	23 Hrs.	@	32.50	(ST)	747.50
	Journeyman	3.5 Hrs.	@	45.75	(OT)	160.12
STOCK:	31.00	Plus 25%	@	7.75		38.75
EQUIPMENT:	Compressor	5 Hrs.	@	48.00		240.00
	Air Movers	20 Hrs.	@	5.00		100.00
	Forklift	3 Hrs.	@	30.00		90.00
	Vacuum	3 Hrs.	@	30.00		90.00
	Hand Hose	3 Hrs.	@	12.00		36.00
				TOTAL AMOUNT DUE		$1,850.62

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

DAILY TIME LOG

DATE:	2-18-97	CUSTOMER:	BASF
JOB NO:	2-5402	BARGE:	ETT=115

START TIME 11:00AM
11:30 PM.

STOP TIME 4:30 PM
3:30 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5				
Cesar	5				
Quinton	5				
Cruz	5				
Rivera	4				
SAM.	4				

MATERIAL LIST:

JOB DESCRIPTION:
Strip Blow dray. ad. Nitrogen. Pad.

28 hr

DAILY TIME LOG

DATE:	2-18-97	CUSTOMER:	BASF
JOB NO:	2-5402	BARGE:	ETT 115

START TIME 19:30 PM STOP TIME 3:00 AM - 2-19-97

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
R.S. Pettit	3.5	3.5			
C. Duarte	3.5	3.5			

MATERIAL LIST:

Nitrogen Truck - U-Cisco

JOB DESCRIPTION:

Purge Cargo Tanks - Truck Down from 0000 - 1:30 AM

7/12

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-0371
Fax. (409) 233-0375

Date: 2-18-92 Job No: 5402 Barge/MV: EXT-115

EQUIPMENT	HOURS
Compressor	
Air Movers	5
Vacuum	20
Steam Rig	3
Hand Hose	
ROLLER	3
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER	
Coveralls		
Batteries	2	7.10
Respirator Filters		
Gloves	3	18.00
Flashlights	2	5.90
Gaskets		
Goggles		
Boots	1	
Raincoats		
White Rags		

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-0371
Fax. (409) 233-0375

Date: 2-18-92 Job No: 5402 Barge/MV: EXT-115

EQUIPMENT	HOURS
Compressor	5
Air Movers	20
Vacuum	3
Steam Rig	
Hand Hose	3
Roller	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	2
Batteries	
Respirator Filters	3
Gloves	2
Flashlights	
Gaskets	
Goggles	1
Boots	
Raincoats	
White Rags	

Job Workscope/Breakdown

Job No: 2-5402 Date: 2-18-97 Invoice Number: 3768

Customer: BASF Barge/~~MV~~: Ett 115

Foreman:	S/T		@	38.00	
	O/T	~~3 1/2~~	@	53.25	~~186.38~~
Leadman:	S/T	5	@	35.00	~~175.00~~ 175.00
	O/T	3 1/2	@	49.50	173.25
Journeyman:	S/T	23	@	32.50	~~736.00~~ 747.50
	O/T	3 1/2	@	45.75	~~160.13~~ 160.12
Disposal:	Slop Oil		@	0.60	
	Water		@	0.35	
Water:			@	5.00/1,000 gal	
Material:			Plus 25%		
Stock:		31.00	Plus 25%	7.75	38.75
Chemist:			Plus 25%		
Equipment:	Compressor	5	@	48.00	240.00
	Air Movers	20	@	5.00	100.00
	Forklift	3	@	30.00	90.00
	Tugboat		@	100.00	
	Steam Rig		@	100.00	
	Vacuum	3	@	30.00	90.00
	Hand Hose	3	@	12.00	36.00
	Weld Machine		@	15.00	
	Cherry Picker		@	70.00	
	Crane		@	130.00	
	3" Gas Pump		@	18.00	
	2" Strip Pump		@	15.00	
	Butterworth		@	10.00	
	4" Elec. Pump		@	15.00	
	Cutting Rig		@	8.00	
	Haul Out		@	1,100.00	
	Truck		@	25.00	
	Hand Tools		@	10.00	

Total Invoice: ~~3[illegible]~~ ~~$1,890.38~~ $1,838.38 1850.6[illegible]

2-5402
EIT 115

BASF
2-18-97

UCISCO, INC.
A PRAXAIR SERVICE COMPANY

THE PLAZA AT COMMERCE PARK NORTH
222 PENNBRIGHT, SUITE 300
HOUSTON, TEXAS 77090-5999 (713) 872-2229

SERVICE AGREEMEN
No. 46251

BILLING INFORMATION	Customer BASF		Customer Code 1310-
	Address 602 COPPER RD ATTN: AP		
	City FREEPORT	State TX Zip 77541	Phone
	P.O. No.		Tax Exempt No.
JOB LOCATION	City FREEPORT	County BRAZORIA	State TX Zip / Tax Code
DISPATCH INFORMATION	Time & Date Needed 0000 021997		District 1310
	Rate Sch. ☐	Quotation ☐ No.	No Service ☐
	Description of Service PURGE A BARGE @ THE HERCULES MARINE TERMINAL		
	Market Served G ☒ NPS ☐ PCSFT ☐ PCSPL ☐ PCSHX ☐ TT ☐ Other		

WARNING

1. PRE-JOB DISCUSSION WAS HELD & SAFETY CHECK LIST COMPLETED. MLE Initial
2. CUSTOMER HAS RECEIVED A COPY OF SAFETY PRECAUTIONS. MLE Initial

WARNING

HAZARDOUS	ORIGIN (PROCESS)	IDENTITY/ DESCRIPTION	CHEMICAL CONSTITUENTS	DISPOSAL SITE/ DISPOSITION
☐ YES ☒ NO				

The undersigned acknowledges that the information provided above with respect to Wastes (as defined in paragraph 9 of the terms and conditions specified on the reverse side hereof) represents the best knowledge of the Customer with respect to such Wastes. The undersigned further acknowledges that a pre-job discussion was held, a safety check list was completed, and that he has received and read the safety precautions and hereby approves, accepts and authorizes the services described herein to be performed in accordance with the terms and conditions specified on the reverse side of this service agreement. Unless prices are quoted, all prices will be according to UCISCO's rate schedule in effect at the time of the services.

AUTHORIZED SIGNATURE Roger S. Pettit TITLE Operator DATE 2/19/97

EQUIPMENT	UNIT 1	TYPE	UNIT 2	TYPE
Unit No. & Type	2148	230-A 2148		
Date & Time Out	021897	1800		
Date & Time On Site	021997	0000		
Date & Time Started	021997	0000		
Date & Time Completed	021997	0300		
Date & Time In				
TOTAL N_2 UNIT HOURS	3			
SANDJET RUNS				
Additional Sandjet Runs				
Additional Hours				
Additional Days				
TOTAL N_2 USED (NPS ONLY)				

THIS AREA IS FOR UCISCO ACCOUNTING USE ONLY

EQUIPMENT MILEAGE	
Roundtrip Miles From:	LA PORTE, TX
Allowed Miles Per N_2 Unit	
Chargeable Miles 230	× No. of Units 1
TOTAL CHARGEABLE MILES	

TRANSPORT MILEAGE AND TIME	
Roundtrip Miles From:	
Allowed Miles Per Transport	
Chargeable Miles	× No. of Transports
TOTAL CHARGEABLE MILES	
Total Transport Time On Site	
Total Chargeable Transport Time	

I hereby acknowledge that the above information is correct and the services have been completed.

Authorized Signature Roger S. Pettit

Title Operator Date 2/19/97

UCISCO Representative Merrill L Eg

ADDITIONAL WORK

The undersigned authorizes UCISCO to perform the additional services described here at the "additional charges" price contained in UCISCO's quotation or the price specified. A. Description of additional service

B. Price for additional services ☐ Quotation ☐ Other: (Describe)

Customer Signature Date

REMARKS DOWNTIME FROM 0000 - 0130

REV 4/96

CUSTOMER COPY

OFFS. ONE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 2-18-87

BARGE: Ett=115

NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ___

GATE VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO ___

PLUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO ___

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

SEEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND NUMBER N/A REPLACED GASKET YES ___ NO ___

BELOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY CHS&S

DRIP PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY N/A

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: [illegible]

WITNESS: [illegible]

- CHECK VALVE GASKET WILL BE REPLACED
- AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARGE

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS BASF
ETT=115

TRANSFER FACILITY HERCULES MARINE GAS FREE DOCK

LOCATION FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.120)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Spill and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q)).	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
[illegible signature]	FOREMAN	2-18-97 = 11:30 AM

Person in Charge Delivering Unit		
[illegible signature]	FUEL PERSON	

TIME COMPLETED 2-18-97 = 5:30

* Rules and Regulations for Tank Vessels

BARGE CLEANING REPORT

JOB NO. 5402

BARGE NO. Ettelis

CUSTOMER BASF

PRODUCT N-Butanol

ETA

DATE/TIME ARRIVAL 2-18-97 10:

DATE/TIME STARTED 2-18-97 11:

DATE/TIME COMPLETE 2-18-97 1:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY:

OVERTIME AUTHORIZED BY:

BARGE INSPECTED BY: [illegible]

BARGE RELEASED TO: Brew water VN DATE/TIME: 3:30

DECKWELL OPENED: YES N/A NO ____ CLOSED BY ____ DATE/TIME: 5:30

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY ____ NEW CASKET ____ YES ____ NO

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY Cruz NEW CASKET ____ YES ✓

DECK HEADER BLINDS OPEN: yes INSPECTED BY CALEB BRETT ____ YES ____ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY Cruz

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW CASKET ____ YES ____ NO

RUST SCALE: YES ____ NO ✓ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES Good

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 70 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ✓

PIPELINE WASHED: yes PIPELINE BLOWN yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED:

SUMPS INSPECTED ✓

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 18 FEB/97

1530
Time In

1555
Time Out

Inspected By [illegible]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THE [illegible]

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE

OUR REFERENCE FP/97

TIME LOG

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-115	VISWAC	HERCULES/FP	02-18-97

MONTH	DAY	HOUR	EVENT
02	18	1530	ARRIVE HERCULES BARGE DOCK
		1535	COMMENCED BARGE INSPECTION
		1545	BARGE INSPECTION COMPLETE.
		1555	PAPERWORK COMPLETE.

For Vessel

FOR CALEB BRETT U.S.A., INC.

FORM # 2-044-93

Inlandape Testing Services
Caleb Brett

OUR REFERENCE FP197-

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
ETT - 115	VISUAL	HERCULES (F.P.)	18 FEB 97

Tank Number	1C	2C	3C				
Tank Coating	SOFT STEEL	SOFT STEEL	SOFT STELL				
Last Cargo	Normal BUTNOL	Normal BUTNOL	Normal BUTNOL				
Second Last Cargo	N/A	N/A	N/A				
Third Last Cargo	N/A	N/A	N/A				
Time/Date Inspected	1545 18FEB97	1545 18Feb97	1545 18Feb97				
Visual Cleanliness Accepted/Rejected*	ACCEPTED	ACCEPTED	ACCEPTED				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1C	STRIPPED CARGO TANKS + PIPELINES (1 hr); VENT OUT FOR (4 hr)
	TK# 2C	BLOW CARGO TANKS + PIPE LINES (2 Hr)
	TK# 3C	*NOTE* ALL TANKS AND PIPELINES RECIEVED THE SAME PROCEDURES.
	TK#	
	TK#	
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-94A

*[signature] for Hercules

[signature]
FOR CALEB BRETT

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 2-18-97 Supervisor [illegible]

Plant Hercules Client Safety _____

Area LPAS Free Dock
EFT=115

The following listed materials are considered to be hazardous to the employe working in this area:

N-Butanol

The employees assigned to work in this area have been informed of the hazardou materials in this area, the hazards they present to the workers, the locatio of hazards listed, the protective equipment that has been provided and wher it is located, and procedures to be followed in case of an accidental exposure I have received the training listed above and will so designate by signing thi form.

NAME	BADGE	NAME	BADGE
[illegible]			
Jose A Cerda			
Hector Cruz			
[illegible]			

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

FLAMMABLE
DOT: LIQUID
NA1120

C. 12912

N-BUTANOL

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date printed, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, all Governmental regulations and any potential [illegible] responsibility [illegible] suitability for specific and uses prior to use.

FORM 9-0010 PRINTED 11-5-80

DOW CHEMICAL U.S.A.
AN OPERATING UNIT OF THE DOW CHEMICAL COMPANY

R-04-01-81

HERCULES OFFSHORE CO.

MARINE REPAIR ORDER No. _____

MARINE OPERATIONS FACILITY

INVOICE NO. _____

CUSTOMER P.O. _____

DATE

ORDER COMMENCED	2-18-97
ETA	12:00 p.m.
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

M/V ☐ BARGE XM

NAME ETT 115

LOA _____ BEAM _____

PROGRAM C. DUARTE

LAST PRODUCT _____

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME BASF

BILLING ADDRESS _____

CITY AND STATE FREEPORT, TX 77541

PHONE NUMBER _____

WORK AUTHORIZED BY _____ O/T AUTHORIZED BY _____

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW.

2 Purge Cargo Tanks with Nitrogen

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HERCULES OFFSHORE CO.

MARINE OPERATIONS FACILITY

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. _____

DATE

ORDER WRITTEN	2-18-97
ETA	12:00 p.m.
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

M/V ☐ BARGE ☒ AUX

NAME: BTR 115

LOA: | BREW:

FOREMAN: C. DUARTE

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX 77541

PHONE NUMBER:

WORK AUTHORIZED BY: | O/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW.

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudio Duarte Date: 2-18-97

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

DOT FLAMMABLE LIQUID NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

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ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

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SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
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INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

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2-5396
ETT 110

BASF
2-9-97

HERCULES
MARINE SERVICES CORPORATION
P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. : 3762
DATE : Feb. 9, 1997
Job No. : 2-5396
Location : Freeport, TX

TO:

BASF
602 Copper Road
Freeport, Texas 77541

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

Service to the ETT 110 as follows:

Strip and Blow. Check engine for oil leakage.
Located and removed cover with hole, weld hole and replace cover.

LABOR:	Leadman	7.5 Hrs.	@	35.00 (ST)	262.50
	Journeyman	28 Hrs.	@	32.50 (ST)	910.00
STOCK:	45.10	Plus 25%		11.28	56.38
EQUIPMENT:	Compressor	5 hrs.	@	48.00	240.00
	Air Movers	20 hrs.	@	5.00	100.00
	Vacuum	3 hrs.	@	30.00	90.00
	Hand Hose	3 hrs.	@	12.00	36.00
				TOTAL AMOUNT DUE	**$1,694.88**

PHONE: (409) 233-6371

Strength through Experience, Equipment, Know-How

DAILY TIME LOG

DATE:	2-9-97	CUSTOMER:	BASF
JOB NO:	5396	BARGE:	Ett=110

START TIME 8:00 AM 2:00 PM

STOP TIME 12:00 PM 7:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	7½				
Caron	6½				
Quinlen	6½				
Cous	6½				
Pinero	6½				
Sal	2				

MATERIAL LIST:

JOB DESCRIPTION:

Setup and stand-by for Strip & Blow Barge (110). Upon arrival (Strip & Blow Day) Check for oil leak (oil spill on Deck); located ~~oil~~ hole on sensor plate cover to motor. ~~Not~~ Removed and welded hole on Plate. Reinstalled on motor.

35½ hrs

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 2-9-97 Job No: 2-5396 Barge/M/V: Ett=110

EQUIPMENT	HOURS
Compressor	
Air Movers	5
Vacuum	20
Steam Rig	3
Hand Hose	
Roller	3
2" Sump Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER	
Coveralls	2	7.10
Batteries	2	4.50
Respirator Filters	4	24.00
Gloves	2	3.50
Flashlights		
Gaskets		
Goggles		
Boots	2	6.00
Raincoats		
White Rags		

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6376

Date: 2-9-92 Job No: 2-5396 Barge/M/V: ETT=110

EQUIPMENT	HOURS
Compressor	
Air Movers	5
Vacuum	20
Steam Rig	3
Hand Hose	
Roller	3
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	

STOCK	NUMBER
Coveralls	
Batteries	2
Respirator Filters	2
Gloves	4
Flashlights	2
Gaskets	
Goggles	
Boots	2
Raincoats	
White Rags	

Job Workscope/Breakdown

Job No: 2-5396 Date: 2-9-97 Invoice Number: 3762

Customer: BASF Barge/~~MV~~: Ett 110

Travel Time:		Hours	@ 17.50/Hour		
Mileage :		Miles	@ 0.25/Mile		
Foreman:	S/T		@	38.00	
	O/T		@	53.25	
Leadman:	S/T	7 1/2	@	35.00	262.50
	O/T		@	49.50	
Journeyman:	S/T	28	@	32.50	910.00
	O/T		@	45.75	
Disposal:	Slop Oil		@	0.60	
	Water		@	0.35	
Water:			@	5.00/1,000 gal	
Material:			Plus 25%		
Stock:		45.10	Plus 25%	11.28	56.38
Chemist:			Plus 25%		
Equipment:	Compressor	5	@	48.00	240.00
	Air Movers	20	@	5.00	100.00
	Forklift		@	30.00	
	Tugboat		@	100.00	
	Steam Rig		@	100.00	
	Vacuum	3	@	30.00	90.00
	Hand Hose	3	@	12.00	36.00
	Weld Machine		@	15.00	
	Cherry Picker		@	70.00	
	Crane		@	130.00	
	3" Gas Pump		@	18.00	
	2" Strip Pump		@	15.00	
	Butterworth		@	10.00	
	4" Elec. Pump		@	15.00	
	Cutting Rig		@	8.00	
	Haul Out		@	1,100.00	
	Truck		@	25.00	
	Hand Tools		@	10.00	

MATERIAL COST:

Overalls	- 3.55 Ea.
Batteries	- 2.25 Ea.
Respirator Fil	- 6.00 Ea.
Gloves	- 1.75 Ea.
Flashlights	-12.00 Ea.
Gaskets	- 6.00 Ea.
Goggles	- 2.95 Ea.
Boots	- 9.00 Ea.
Raincoats	-36.65 Ea.
White Rags	- 9.93/Box
Cleaner	- 72.75

Cost + 25%=Charge to Customer.

Total Invoice: $1,694.88

2-5396
ETT 110

BASF
2-9-97

HERCULES OFFSHORE CO.

MARINE OPERATIONS FACILITY

INVOICE NO. 3762

CUSTOMER P.O.

MARINE REPAIR ORDER No. 2-5396

DATE

ORDER WRITTEN: 2-9-97 | ETA: 10:00 a.m.

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

M/V ☐ BARGE ☐ XX

NAME: EIT 110

LOA: | WIDTH:

FOREMAN: C. DUARTE

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE:

ON WAYS DATE:

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX 77541

PHONE NUMBER:

WORK AUTHORIZED BY: R. PETERS | CITY AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW. CHECK ENGINE FOR OIL LEAKAGE.

2

3

4

5

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8

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10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 2-5396

MARINE OPERATIONS FACILITY

DATE

ORDER WRITTEN	2-9-97
ETA	10:00 a.m.
ARRIVAL	
COMPLETION DATE	
DEPARTURE DATE	

M/V ☐ CARGO ☐ XX

NAME: ETT 110

LOA: | WIDTH:

FOREMAN: C. DUARTE

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX 77541

PHONE NUMBER:

WORK AUTHORIZED BY: R. PETERS | CITY AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW. CHECK ENGINE FOR OIL LEAKAGE.

Locate and removed cover with ½" hole, weld hole & replace

2 cover.

3

4

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THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudia Duarte Date: 2-9-97

JOB NO. _____ BARGE CLEANING REPORT

BARGE NO. ETT2110

CUSTOMER BASF

PRODUCT N-BUTANOL

ETA _____

DATE/TIME ARRIVAL 2-2-97 2:

DATE/TIME STARTED 2-2-97 2:

DATE/TIME COMPLETED 2-2-97 7:

AMOUNT STRIPPED 300

CLEANING INSTRUCTION BY: Robert Peters

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: C. Duarte

BARGE RELEASED TO: Brown Water IV DATE/TIME: 6:00 PM

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ DATE/TIME: 6:45 PM

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY _____ NEW CASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW CASKET ____ YES ✓

DECK HEADER BLINDS OPEN: YES INSPECTED BY CALEB BRETT ____ YES ____ NO

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CHUS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY CASHS NEW CASKET ____ YES ____ NO

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT _____

NUMBER OF CARGO TANKS 3

CONDITION OF CARGO VALVES GOOD

SLOP TANK STRIPPED: YES N/A NO ____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 60 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ✓ CLOUDY ✓ CLEAR ____

PIPELINE WASHED: no PIPELINE BLOWN yes INSPECTED BY CALEB BRETT

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____

SUMPS INSPECTED ✓ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercular foreman in charge to sign. The foreman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 2/9/97

1835
Time In

1900
Time Out

Inspected By A. Demps Jr.

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS REPORT.

Inchcape Testing Services
Caleb Brett

TIME LOG

YOUR REFERENCE
OUR REFERENCE

VESSEL	PRODUCT/CARGO	PORT/TERMINAL	DATE
ETT-110	N/A	Harrahs	2-4-97

MONTH	DAY	HOUR	EVENT
2	9	1805	inspector notified
		1835	inspector arrived
		1840	commenced barge pre-inspection
		1845	witnessed cargo lines blown
		1850	completed barge pre-inspection
		1900	final paperwork completed

For Vessel

FOR CALEB BRETT

FORM # 2-044-95

Inchcape Testing Services
Caleb Brett

YOUR REFERENCE	
OUR REFERENCE	

VISUAL TANK INSPECTION REPORT

VESSEL	PRODUCT / CARGO	PORT / TERMINAL	DATE
FIT-110	N/A	Hercules	2-9-97

Tank Number	1,2,3c						
Tank Coating	N/A						
Last Cargo	Cyclo						
Second Last Cargo	↓						
Third Last Cargo	↓						
Time/Date Inspected	2-9-97/1830						
Visual Cleanliness Accepted/Rejected*	accepted						
Reason for Rejection	N/A						

Method said to have been used to clean tanks:		
	TK#	Strip + blow
	TK#	Stripped product from cargo lines – blow dry for 3 hours
	TK#	Stripped proud from cargo tanks + blow dry for 1 1/2 hours
	TK#	
	TK#	
	TK#	
	TK#	

ormation regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

e cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or port of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner suppliers of the coating.

94A

FOR CALEB BRETT

OFFSHORE CORPORATION
Strength through experience, equipment, know-how
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 2-9-97

CARGO: ETT-110

' NUMBER CHECKED 2 REPLACED GASKET YES ___ NO ✓

GATE VALVE NUMBER CHECKED 5 REPLACED GASKET YES ___ NO ✓

PLUGS NUMBER CHECKED N/A REPLACED PLUG YES ___ NO ✓

CHECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

SEEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

LOW DECK CARGO PIPELINE BLIND NUMBER 2 REPLACED GASKET YES ___ NO ✓

LOW DECK CARGO PIPELINE BLIND REMOVED YES ✓ NO ___

DRIP PANS VALVES: CLOSED BY Cruz

DRIP PANS COVER: CLOSED BY N/A

CONTAINMENT AREA PLUG OR VALVES: CLOSED BY N/A

AIR TEST CARGO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Claudio Duarte

WITNESS: Luan L. Quinlan

- CHECK VALVE GASKET WILL BE REPLACED
- AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING CARGO.

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS: BASF

EFT-110

TRANSFER FACILITY: Hercules Marine Gas Free Dock

LOCATION: FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections (156.120)	✓	✓
11. Discharge Containment Systems. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Split and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
Claudio Duarte		2-9-97 @ 2:00 PM

Person in Charge Delivering Unit		
Claudio Duarte	FUEL PERSON	

TIME COMPLETED 2-9-97 3:00 PM

* Rules and Regulations for Tank Vessels

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 2-9-97

Plant Hercules

Area LAS Free Dock
Ett=110

Supervisor [illegible]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

Lt But Anol

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
Jose A Casas			
[illegible]			
[illegible]			

HERCULES OFFSHORE CO.

INVOICE NO. _____

CUSTOMER P.O. _____

MARINE REPAIR ORDER No. 4-5494

MARINE OPERATIONS FACILITY

DATE

ORDER WRITTEN: 4-23-97 | ETA: 11:30 a.m.

ARRIVAL:

COMPLETION DATE:

DEPARTURE DATE:

B/V ☐ DARD XO

NAME: EIT 113

LOA:

WIDTH:

FOREMAN:

LAST PRODUCT:

GAS FREEING YES ☐ NO ☐ CERTIFICATE REQUIRED YES ☐ NO ☐

HAUL OUT FOR INSPECTION AND REPAIR YES ☐ NO ☐

ON WAYS DATE: _____

ON WAYS DATE: _____

CUSTOMER

NAME: BASF

BILLING ADDRESS:

CITY AND STATE: FREEPORT, TX

PHONE NUMBER:

WORK AUTHORIZED BY: SUZETTE

W/T AUTHORIZED BY:

STOCK MATERIAL ☐ YES ☐ NO

IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET

OUTSIDE SERVICES IF YES, LIST ☐ YES ☐ NO

ITEM NUMBERS

1 STRIP AND BLOW DRY. RELEASE TO BROWN WATER IV.

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Claudia Duarte Date: 4-23-97

JOB NO. 5494 ETA

BARGE NO. ETT 113 DATE/TIME ARRIVAL 4-23-97 1:00

CUSTOMER BASF DATE/TIME STARTED 4-23-97 13

PRODUCT N. BUTANOL DATE/TIME COMPLETED 4-23-97 7

DISPOSAL AMOUNT _____ AMOUNT STRIPPED 200

CLEANING INSTRUCTION BY: Robert Peters BY: _____

COMPLETION SCHEDULE BY: _____

OVERTIME AUTHORIZED BY: Robert Peters

BARGE INSPECTED BY: [illegible] DATE/TIME: 6:30

BARGE RELEASED TO: Brow Water IV DATE/TIME: _____

DEEPWELL OPENED: YES N/A NO ____ CLOSED BY _____ NEW GASKET ____ YES ____ NO ____

BELOW DECK CARGO PIPELINE: BLIND OPEN YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO ____

DECK CHECK VALVE OPENED: YES N/A NO ____ CLOSED BY ____ NEW GASKET ____ YES ____ NO ____

DECK HEADER BLINDS OPEN: YES ✓ NO ____ CLOSED BY CASAS NEW GASKET ____ YES ____ NO ____

DECK HEADER DRAIN PLUG OPEN: YES ✓ NO ____ CLOSED BY CASAS

VAPOR RECOVERY HEADER OPENED: YES ✓ NO ____ CLOSED BY Cruz NEW GASKET ____ YES ____ NO ____

RUST SCALE: YES ✓ NO ____ WASHED OUT ____ BUCKETED OUT ____

NUMBER OF CARGO TANKS 3

[illegible] TANK VALVES Good

[illegible] TANK STRIPPED: YES N/A NO ____ PIPE PRESSURE TEST DATE: _____

DRIP PANS STRIPPED: YES ✓ NO ____

WEATHER: TEMP 80 RAIN ____ FOG ____ HUMIDITY ____ OVERCAST ____ CLOUDY ____ CLEAR ____

PIPELINE WASHED: NO PIPELINE BLOWN YES PIPELINE SUMPS INSPECTED ____

BOW RAKE CHECKED: YES ✓ NO ____ STERN RAKE: YES ✓ NO ____

VOIDS: YES ✓ NO ____ SAFETY EQUIPMENT USED: _____

****

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The forman will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected April 23 1997 1830 Time In 1900 Time Out

Inspected By [signature]

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

JOB WORKSCOPE/BREAKDOWN

Job Number: 4-3494 Date: 4-23-97 Invoice Number: _____

Customer: BASF Barge/MV: ETT 113

Travel Time: _____ Hours @ $17.50/Hr = _____ Mileage: _____ @$.25/Mi = _____

Foreman:	_____	Hours (ST)	@	$ 38.00/Hour	_____
	_____	Hours (OT)	@	$ 53.25/Hour	_____
Leadman:	2.5	Hours (ST)	@	$ 35.00/Hour	87.50
	3.0	Hours (OT)	@	$ 49.50/Hour	148.50
Journeyman:	6	Hours (ST)	@	$ 32.50/Hour	195.00
	11	Hours (OT)	@	$ 45.75/Hour	503.25

DISPOSAL:

Slop Oil	_____	Gallons	@	$ 0.60/Gallon	_____
Water	_____	Gallons	@	$ 0.35/Gallon	_____

WATER:	_____	Gallons	@	$ 5.00/1,000 Gallons	_____
MATERIAL:	_____		Plus 25%	_____ =	_____
STOCK:	57.00		Plus 25%	14.25 =	71.25
CHEMIST:	_____		Plus 25%	_____ =	_____

EQUIPMENT:

Compressor	5	Hours	@	$ 48.00/Hour	240.00
Air Movers	20	Hours	@	$ 5.00/Hour	100.00
Vacuum	4	Hours	@	$ 30.00/Hour	120.00
Hand Hose	3	Hours	@	$ 12.00/Hour	36.00
2" Strip Pump	_____	Hours	@	$ 15.00/Hour	_____
3" Gas Pump	_____	Hours	@	$ 18.00/Hour	_____
Hand Tools	_____	Each	@	$ 10.00 Each	_____
Weld Machine	_____	Hours	@	$ 15.00/Hour	_____
Cutting Rig	_____	Hours	@	$ 8.00/Hour	_____
Haul Out	_____	Each	@	$1,100.00 Each	_____
Forklift	_____	Hours	@	$ 30.00/Hour	_____
Tugboat	_____	Hours	@	$ 100.00/Hour	_____
Steam Rig	_____	Hours	@	$ 100.00/Hour	_____
Cherry Picker	_____	Hours	@	$ 70.00/Hour	_____
Crane	_____	Hours	@	$ 130.00/Hour	_____
Butterworth	_____	Hours	@	$ 10.00/Hour	_____
4" Elec Pump	_____	Hours	@	$ 15.00/Hour	_____
Truck	_____	Hours	@	$ 25.00/Hour	_____

MATERIAL COST:

Coveralls	2	@ 3.50 Ea.=	7.00	Batteries	2	@ 3.00 Ea.= 6.00
Respirator	4	@ 6.00 Ea.=	24.00	Gloves/Rbr	_____	@ 3.00 Ea.= _____
Flashlights	1	@12.00 Ea.=	12.00	Gaskets	_____	@ 6.00 Ea.= _____
Goggles	2	@ 4.00 Ea.=	8.00	Boots	_____	@12.00 Pr.= _____
Raincoats	_____	@40.00 Ea.=	_____	White Rags	_____	@20.00/Box= _____
Lantern	_____	@13.00 Ea.=	_____	Cleaner	_____	@75.00 = _____

TOTAL INVOICE: $1501.50

DAILY TIME LOG

DATE:	4-23-97	CUSTOMER:	BASF
JOB NO:	6494	BARGE:	ETT-113

START TIME 1:30 PM STOP TIME 7:00 PM

NAME	HOURS	TOTAL HOURS	NAME	HOURS	TOTAL HOURS
Claudio	5½	2.5-R 3.0-O			
Quinton	5½	2.5-R 3.0-O			
Cruz	5½	2.5-R 3.0-O			
Rivera	3½	.5-R 2.5-O			
Caron	3½	.5-R 2.5-O			

MATERIAL LIST: 235

JOB DESCRIPTION:

Strip. Blow dry

HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

Date: 11-23-97 Job No: 5494 Barge/M/V: ETT-113

EQUIPMENT	HOURS
Compressor	5
Air Movers	20
Vacuum	4
Steam Rig	
Hand Hose	3
Boiler	
2" Strip Pump	
3" Diesel Pump	
4" Electric Pump	
Crane	
Cherry Picker	
Forklift	
Tug Boat	
Welding Machine	
Cutting Rig	
Work Barge	
Haul Out	
Truck	
Hand Tools	
100 Sack Sand Pot	
Sandblasting Hoses	
2" Sandblasting Hoses	

STOCK	NUMBER
Coveralls	2
Batteries	2
Respirator Filters	4
Gloves	
Flashlights	
Gaskets	
Goggles	2
Boots	
Raincoats	
White Rags	

Revised 12-13-96/gm

OFFS CORPORATION
Strength through experience, equipment, knowledge
P.O. Drawer O
Freeport, Texas 77541
Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

ATE: 11-23-97

ARGE: EHT-113

NUMBER CHECKED 2 REPLACED GASKET YES ___ NO —

VE VALVE NUMBER CHECKED 6 REPLACED GASKET YES ___ NO —

LUGS NUMBER CHECKED 1 REPLACED PLUG YES ___ NO —

HECK VALVE NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

EEPWELL BLIND NUMBER CHECKED N/A REPLACED GASKET YES ___ NO ___

LOW DECK CARGO PIPELINE BLIND NUMBER 2 REPLACED GASKET YES ___ NO ___

LOW DECK CARGO PIPELINE BLIND REMOVED YES ___ NO ✓

P PANS VALVES: CLOSED BY Cruz

RIP PANS COVER: CLOSED BY N/A

OMTAINMENT AREA PLUG OR VALVES: CLOSED BY CASAS

IR TEST CARGO LINE - 40psi - USING SOAP

GNATURE OF TESTER: [illegible]

NESS: Lorenzo Cruz

HECK VALVE GASKET WILL BE REPLACED
IR TEST [illegible] THING TO BE DONE BEFORE RELEASING [illegible]

DECLARATION OF INSPECTION PRIOR TO BULK CARGO TRANSFER

VESSELS: BASF

FTT-113

TRANSFER FACILITY: HERCULES MARINE DAS FREE DOCK

LOCATION: FREEPORT TX.

The following list refers to requirements set forth in detail in 33 CFR 156.150 and 46 CFR 35.35-30 (printed on reverse). The spaces adjacent to items on the list are provided to indicate that the detailed requirement has been met.

	DELIVERER	RECEIVER
1. Communication System/Language Fluency (156.120) (m) (p))	✓	✓
* 2. Warning Signs and red Warning Signals. (35.35-30)	✓	✓
3. Vessels Moorings. (156.120 (a))	✓	✓
4. Transfer System Alignment. (156.120 (d))	✓	✓
5. Transfer System; unused components. (156.120 (e))	✓	✓
6. Transfer Systems; fixed piping. (156.120 (f))	✓	✓
7. Overboard Discharges/Sea Suction Valves. (156.120 (g))	✓	✓
8. Hoses or Loading Arms condition. (156.120 (h) (156.170)	✓	✓
9. Hoses; length and support. (156.120 (b) (c))	✓	✓
10. Connections. (156.130)	✓	✓
11. Discharge Containment System. (156.120 (j) (l))	✓	✓
12. Scuppers or Drains. (156.120 (k))	✓	✓
13. Emergency Shutdown (156.120 (n)	✓	✓
* 14. Repair Work Authorization. (35.35-30)	N/A	N/A
* 15. Boiler and Galley Fires Safety. (35.35-30)	N/A	N/A
* 16. Fires or Open Flames (35.35-30)	N/A	N/A
17. Lighting (sunset to sunrise). (156.120 (t))	✓	✓
* 18. Safe Smoking Spaces. (35.35-30)	✓	✓
19. Split and Emergency shutdown procedures. (156.120 (q))	✓	✓
20. Sufficient Personnel. (156.120 (o) (s))	✓	✓
21. Transfer Conference. (156.120 (q))	✓	✓
22. Agreement to begin transfer. (156.120 (r))	✓	✓

I do certify that I have personally inspected this facility or vessel with reference to the requirements printed on reverse and that opposite each of them I have indicated that the regulations have been complied with.

Person in Charge Receiving Unit	TITLE	TIME & DATE
[illegible signature]	FOREMAN	4-23-97 1:30

Person in Charge Delivering Unit		
[illegible signature]	FUEL PERSON	

TIME COMPLETED 4-23-97 2:00 PM

* Rules and Regulations for Tank Vessels

HAZARDS COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 11-23-97 Supervisor [illegible]

Plant HERCULES marine Client Safety _____

Area Bldg 4 Free DOCK

The following listed materials are considered to be hazardous to the employee working in this area:

N-Butanol

The employee assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
[illegible]			
Jose J Duarte			
Edgar Cruz			
Jose A Corral			

(1-202-483-7616 OUTSIDE THE CONTINENTAL U.S. AND IN WASHINGTON, D.C.)

EMERGENCY RESPONSE INFORMATION SHEET

DOT FLAMMABLE LIQUID NA1120

N-BUTANOL

C. 12912

FORM: LIQUID, CLEAR
SPECIFIC GRAVITY: 0.8
SOLUBILITY IN WATER: MIXES SLIGHTLY
FREEZING POINT: -128°F
BOILING POINT: 243.9°F
FLASH POINT: 97°F (TOC)

FLAMMABLE LIMITS: 1.4% - 11.2%
VAPOR HAZARD: FLAMMABLE. IRRITATING.
REACTS WITH: OXIDIZING MATERIALS, COPPER AND ITS ALLOYS.

HEALTH HAZARDS

ANIMAL: AVOID INGESTION. AVOID EXPOSURE.
FISH: AVOID ENTRY INTO NATURAL WATERS. MAY CAUSE LOCALIZED FISH KILL.

EYES: MODERATE BURN. MODERATE IRRITATION.
SKIN: MODERATE IRRITATION; TOXIC BY ABSORPTION UPON GROSS CONTACT.
INHALATION: SLIGHTLY IRRITATING. DROWSINESS, UNCONSCIOUSNESS.
INGESTION: LOW TOXICITY.

IN CASE OF ACCIDENT

SPILL LEAK

FLAMMABLE. IRRITATING. KEEP UPWIND. ISOLATE AREA AND DENY ENTRY.
DO NOT GET IN EYES. AVOID CONTACT WITH SKIN. AVOID BREATHING VAPORS.
USE WATER SPRAY TO REDUCE VAPOR. NO SMOKING, FLARES, OR OPEN FLAMES.
SHUT OFF IGNITION AND LEAK IF WITHOUT RISK. USE NONCOMBUSTIBLE ABSORBENT MATERIAL/SAND AND SHOVEL INTO SUITABLE CONTAINERS.
DIKE LARGER SPILLS AND RECOVER. AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.
CLOTHING: WEAR FULL PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS.
DISPOSAL: CONTACT MANUFACTURER AND AUTHORITIES.

FIRE

FLAMMABLE. IRRITATING.
DO NOT PUT OUT ANY FIRES AT VENTS UNTIL LEAK IS SHUT OFF.
MAY DECOMPOSE IN HEAT/FIRE RELEASING PRODUCTS OF GREATER HAZARD.
COOL CONTAINERS EXPOSED TO HEAT/FIRE WITH WATER TO PREVENT BURSTING.
SMALL FIRES: USE DRY CHEMICAL OR CO_2.
LARGE FIRES: USE WATER SPRAY, FOG, OR ALCOHOL FOAM. IF MASSIVE FIRE: USE UNMANNED HOSE HOLDER OR MONITOR NOZZLES. IF THIS IS IMPOSSIBLE, WITHDRAW FROM AREA AND LET FIRE BURN. DIKE LIQUID RUN-OFF.
AVOID ENTRY INTO SEWERS AND/OR NATURAL WATERS.

FIRST AID

EYES: IRRIGATE WITH FLOWING WATER IMMEDIATELY AND CONTINUOUSLY FOR 15 MINUTES. CONSULT MEDICAL PERSONNEL.
SKIN: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING. CONSULT MEDICAL PERSONNEL.
CLOTHING: REMOVE CONTAMINATED CLOTHING IMMEDIATELY AND WASH BEFORE REUSE. DESTROY CONTAMINATED SHOES AND LEATHER ITEMS.
INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT MEDICAL PERSONNEL.

The information contained herein is hereby presented as a complimentary act, in good faith, and is, to the best of The Dow Chemical Company's knowledge and belief, accurate and reliable as of the date printed, but may well be incomplete. No representation, guarantee or warranty is made as to its accuracy, reliability or completeness and, as Governmental regulations and/or conditions of usage vary, the user's responsibility includes determining the current appropriateness and suitability for specific end uses prior to use.

DOW CHEMICAL U.S.A. R-04-01-81

Intertek Testing Services
Caleb Brett

OUR REFERENCE

VISUAL TANK INSPECTION REPORT

VESSEL	CUSTOMER PRODUCT DESCRIPTION	PORT / TERMINAL	DATE
ETT-113	VISUAL	Huelva	04-23-97

Tank Number	1C	2C	3C				
Tank Coating	SOFT STEEL	SOFT STEEL	SOFT STEEL				
Last Cargo	Butanol	Butanol	Butanol				
Second Last Cargo							
Third Last Cargo							
Time/Date Inspected	1845/4/23/97	1845/4/23/97	1845/4/23/97				
Visual Cleanliness Accepted/Rejected*	ACC.	ACC.	ACC.				
Reason for Rejection							

Method said to have been used to clean tanks:		
	TK# 1	STRIPPED & BLOWN DRY
	TK# 2	STRIPPED & BLOWN DRY
	TK# 3	STRIPPED & BLOWN DRY
	TK#	
	TK#	* ALL TANK CLEANED the SAME *
	TK#	
	TK#	

Information regarding previous cargoes, tank coating and cleaning method was obtained from vessel personnel and cannot be guaranteed as accurate by Caleb Brett and no liability can be assumed for errors resulting from improper information supplied. This report, of necessity, is based on such information.

* The cleanliness of inspected tank(s) is/are based on visual inspection of tank surfaces and line system at accessible areas only. This document does not cover the cleanliness of tank surfaces and line system at inaccessible spots and/or possible release of components of previous cargoes during loading, discharge or transport of the cargo in question, for which the vessel is fully responsible. Suitability of tank coating for intended cargo must be guaranteed by vessel's owner or by suppliers of the coating.

Form # 2-056-97

FOR CALEB BRETT

Case:	Hercules
Case Number:	CR-FY97-058
Person Interviewed:	Larry Ballinger
TNRCC Office:	Region 12 - Houston
Location:	TRNCC Region 12 office
Date/Time:	May 13, 1997/2:30 pm

On May 13, 1997, TNRCC Special Investigator Brian Lynch interviewed Hercules Marine Services Corporation (Hercules) ex-Manager Larry Ballinger at the TNRCC Region 12 - Houston office. Mr. Ballinger had accompanied John Eldridge and Bruce Stanfill to a meeting Mr. Eldridge requested to have with TNRCC Region 12 Air Program representatives to discuss barge cleaning activity which required emission controls. Eldridge and Stanfill represented Hercules as corporate attorneys. SI Lynch met Mr. Ballinger after the air program meeting in the hall outside the meeting room, identified himself as a criminal investigator and asked Ballinger if he was willing to answer questions concerning barge cleaning activity at Hercules. At this point Eldridge and Stanfill advised that they did not represent Ballinger, but represented Hercules. Theses gentlemen advised that it was up to Ballinger if he wanted to talk with SI Lynch. Ballinger advised that he was willing to answer question about barge cleaning activities at Hercules. Ballinger accompanied Lynch into an adjacent conference room where the interview was conducted.

Ballinger is 46 years of age. He advised that he graduated from high school in Ola, Arkansas, and took some college courses at Arkansas Tech for a short time. He advised that prior to working at Hercules he worked at Grasso Marine for about 10 years. Ballinger said that he started out in sales and operation at Grasso Marine and worked his way up to Vice President of Operations. He advised after working at Grasso Marine for approximately one year he had short term jobs, then in October 1991 he started at Hercules.

Ballinger advised that he had worked at Hercules in Freeport, Texas, for about five and one-half years. He described his work history at Hercules as follows: he started as a salesman in October 1991; he became manager in 1992-1993 for approximately one and one-half years; after the one and one-half years as manager, Jesse Camacho was promoted to the position of manager and Ballinger returned to his previous position as salesman; in approximately 1995 Ballinger became co-manager with Jimmy Jackson until Jackson left in 1996, at which time Ballinger became manager again; he remained the manager at Hercules from 1996 until May 1997 when he resigned.

Ballinger advised that Hercules is a small part of a larger Malaysian owned company. Ballinger advised that his boss is Tom Seward who is President of Hercules Marine and Offshore. He advised that Tom Horde is the Vice President of Hercules Marine Services, and that Horde's office and Seward's office are in Houston, Texas.

Ballinger told Lynch that Hercules has a thermal oxidizer and that they were in the process of hooking it up as a vapor control system for the barge cleaning operation at Hercules. Lynch asked Ballinger why was Hercules receiving barges to be cleaned which contained product with a vapor pressure of greater than 0.5 pounds per squre inch (psi) when they did not have a vapor control system in place and operating. Ballinger said we were trying to get the vapor control system hooked up.

Ballinger advised that Hercules tried to get an air permit for the thermal oxidizer that would be used as the required vapor contol system, but this did not work out. He explained that in approximately December 1996 or January 1997, he learned that the permit Hercules was seeking for the termal oxidizer was not required and only a construction permit was required. Ballinger advised that Hercules then pursued the construction permit. He advised, however, that due to United States Coast Guard requirements Hercules needed drawings of the equipment to be installed and so they hired a consultant to do this. Ballinger then advised that due to delays the thermal oxidizer had not yet been installed.

Lynch asked Ballinger why did Hercules continue to receive barges for cleaning which contained liquids with vapor pressure greater than 0.5 psi when the thermal oxidizer was not yet hooked up. Ballinger advised that over the last couple of years Hercules has lost a lot of key people. He explained that he had to do the jobs of the people that had left, as well as his own. Ballinger gave an example that he had to take calls at night and on weekends concerning operational work. He said he did not realize they had done it, in reference to receiving barges to be cleaned that contained volatile material with vapor pressure greater than 0.5 psi in violation of the air rules. Ballinger advised that when the TNRCC Air Program Inspector Becky Ohler came to Hercules in May 1997, he looked into the matter. Ballinger then stated he was responsible for Hercules cleaning barges which contained volatiles materials with a vapor pressure greater than 0.5 psi, and this is why he resigned from his position at Hercules.

Lynch asked Ballinger who fills out the documents at Hercules which indicates what is being cleaned out of the barge. Ballinger advised that the Hercules Foreman Claudio Durate is the person at Hercules who does this. Lynch asked Ballinger why did Durate indicate butanol was cleaned out of barges when in fact cyclohexane was the material being cleaned out of the barge. Ballinger stated, "it comes back to me, I thought we would be done and have this stuff hooked up, things got away from me."

Lynch asked Ballinger if he explained to his boss Seward the problems he was having at Hercules. Ballinger advised that he did not discuss with his boss about the over worked conditions he was experiencing at Hercules.

Lynch again asked Ballinger how did it happen that Durate wrote butanol on documents describing the material to be cleaned from a barge instead of cyclohexane. Ballinger told Lynch the following: We talked about it before. We were coming to the end of the deal, the regulations, the November 1996 deadline. We did not expect to get any cyclohexane. One or two times they pulled out the wrong paper work.

Lynch asked Ballinger if he told Durate to write butanol on the documents instead of cyclohexane. Ballinger advised that at the time when he and Durate discussed the thermal oxidizer and that the November 1996 regulation deadline was coming up, they discussed that they should be all right because they did not expect to receive cyclohexane. Ballinger advised that also, at this time, he and Durate discussed that if they did receive cyclohexane , they were going to have problems. Lynch asked Ballinger if he told Durate how to handle the problem if it came up. Ballinger said, "well not exactly, but I am responsible." He advised that he did not recall exactly what he told Durate to do if cyclohexane came in.

Lynch asked Ballinger what paper work does the barge carry to show the last product loaded on the barge. He advised that the paper work to show this is kept in the barge mail box. Lynch asked how BASF notifies Hercules that they are sending a barge to Hercules. Ballinger advised that Robert Peters is one person who telephones the Hercules Secretary Gloria Milsap and notifies her of the incoming barge. Ballinger advised that Milsap completes a Hercules internal document known as a "fill file" which tells what needs to be done to the barge. Ballinger advised that sometimes Milsap indicates on the fill file what material is to be cleaned out of the barge. Ballinger advised that Milsap places the fill file in either the mechanic side mail box or the cleaning side mail box depending on the type of work that is to be done on the barge. He advised that if the barge is to be cleaned the fill file will be placed in the cleaning mail box and Durate will receive the document. Ballinger advised that normally, if Hercules is not sure what was on the barge they would call BASF and ask them what material is in the barge. Ballinger advised that 99.9% of the time Hercules knows what material they are dealing with on the barge.

Ballinger then advised that he is responsible for operations, sales, and environmental. He advised that there is no middle management at Hercules and that they were in poor financial shape. He added that Hercules Offshore has had no financial problems. Ballinger advised that he thinks Hercules may get out of the barge cleaning business. Lynch asked Ballinger to whom does Seward report. He advised that Seward reports to Malaysian owners, but that he did not know the names of these people.

Lynch again asked Ballinger if he told Durate to write butanol on the documents describing the material to be cleaned from barges at Hercules instead of cyclohexane. Ballinger said, "I would have to say yes." Lynch asked Ballinger if Durate was asked did Ballinger tell him to write butanol on the documents instead of cyclohexane will he say that Ballinger instructed him to do this. Ballinger responded, "yes, I think so."

Lynch asked Ballinger if he told Seward he had a problem because the thermal oxidizer had not been hooked up as required. Ballinger responded , "no", and then advised that Seward was aware they were getting the thermal oxidizer hooked up. Ballinger advised that Seward was aware of the requirements to have the thermal oxidizer hooked up through his contact with a consultant Harry Walker. Ballinger advised that Seward knew Hercules hired Walker to get an air permit for the thermal oxidizer because of the environmental regulations. Ballinger advised that the Hercules Vice President Tom Horde had very little involvement with the Freeport facility and that he did not discuss the problem of not having the thermal oxidizer hooked up with Horde.

Ballinger then said, "I thought we might have a problem on a couple of barges." Lynch asked Ballinger if he knew cyclohexane came on barges to Hercules. Ballinger said, "I thought we had a couple of barges came in with cyclohexane. I thought that we probably had broken the rule."

Ballinger advised that he called BASF the day Ohler came to Hercules and asked about this issue. Ballinger said that he called Robert Peters and Peters told him that BASF sent barges containing cyclohexane six to seven times to Hercules since November 1996.

Ballinger advised that prior to this he suspected barges containing cyclohexane had been received at Hercules from BASF because, "...time was running too long to not receive one of those things. I just knew that some where in there we had to run into something."

Ballinger advised that he had turned down jobs from other companies such as Dow and Dixie Chemical due to vapor pressure of the material to be cleaned was greater than 0.5 psi.

Lynch asked Ballinger if any documents related to the this matter had been altered since Ohler came out to Hercules in May 1997. Ballinger advised that Jimmy Jackson came back in April 1997, and that Jackson is now the Hercules Manager. Ballinger advised that now Hercules faxes all documents on barge cleaning to Tom Seward in the Houston office.

Ballinger advised that he resigned on the day he called BASF.

Lynch asked Ballinger what Seward and Horde do. He advised that their big deal is Hercules Offshore. Ballinger advised that Ed Messeck worked as a part time environmental consultant to Hercules in the early 1990s. Ballinger advised that Dr. Ed Smith came up with the designs to meet the USCG specifications requirements.

Lynch asked Ballinger what Hercules did with wastewater from barge washing activities. He advised that they used to send this waste to Empak, but now send it to Reclaim Environmental, Inc. in Houston, Texas, where they treat it and discharge it. He advised that Hercules retains barge cleaning wastewater in tanks and then ship it off-site. He advised that they used to ship it off by barge but now ship it on trucks. He advised Hercules cleans about one or two barges per month and generate about two to three thousand gallons of wastewater washings from each barge.

In closing Ballinger said, "I wish I could say more. I wish it had not happened. It got away from me." Also, he advised that BASF was the only customer Hercules had.

Lynch told Ballinger he would discuss this situation with his boss and would like to contact Ballinger again in the near future to further discuss this matter. Ballinger advised that this would be okay.

PERSONAL INFORMATION

Larry Eugene Ballinger
(b) (6)
[redacted]

Signed: Brian Lynch

Date prepared: August 1, 1997

Bonnd

Barry R. McBee, *Chairman*
R. B. "Ralph" Marquez, *Commissioner*
John M. Baker, *Commissioner*
Dan Pearson, *Executive Director*

TEXAS NATURAL RESOURCE CONSERVATION COMMISSION

Protecting Texas by Reducing and Preventing Pollution

June 16, 1997

CERTIFIED MAIL Z 359 976 720
RETURN RECEIPT REQUESTED

Mr. Jimmy Jackson.
Manager
Hercules Marine Services Corporation
Post Office Drawer O
Freeport, Texas 77541

Re: NOTICE OF VIOLATION
TNRCC Air Account No. BL-0118-V

Dear Mr. Jackson:

On May 5, 1997 Ms. Rebecca Ohler and Ms. Faye Liu of the Texas Natural Resource Conservation Commission (TNRCC) conducted an inspection of the above named facility located at 906 Marlin in Freeport, Brazoria County. The inspection was conducted to determine the facility's compliance with applicable air quality laws and regulations. During the inspection the inspectors observed and documented conditions that we believe constitute violations of the applicable requirements, as is explained in this letter and the attached summary.

The TNRCC recognizes that the great majority of the regulated community wants to prevent pollution and to comply with environmental laws. The agency looks forward to working with you to resolve these matters. We ask that you respond in writing with your proposed schedule for corrective action, and that you do so no later than 10 calendar days from the date of receipt of this letter. You may also include any explanation or offer any additional information you wish the agency to consider. We also ask that you advise us of any corrective action which you have already under taken. If you are unable to achieve compliance within 30 days of receipt of this letter, the Texas Clean Air Act requires that we initiate formal enforcement action. The Commission's enforcement obligations and alternatives are more fully explained in the enclosed "Enforcement Related Provisions of the Texas Clean Air Act" and "Formal Enforcement Options." Please be aware that you must be in compliance within 180 days of the date of this notice.

We appreciate meeting with you on May 13, 1997. The letter which was requested at that time may serve also as the letter mentioned above. If you feel that an additional letter or meeting is desirable please inform us of this.

By this letter we also wish to confirm that the referenced violation is being referred to our Central Office Compliance Section. That section will determine, (in accordance with requirements of the Texas Clean Air Act and the Texas Natural Resource Conservation Commission's "Guidelines on Compliance and Enforcement Matters,") whether, and in what form, formal enforcement action will be pursued. Formal action may include the development of an Agreed Order with or without administrative penalties, or referral to the Texas Attorney General's Office for litigation. Alternatively, we may conduct an administrative enforcement hearing on the facts of the violation, corrective action and/or the amount of the penalty. Upon completion of analysis and review, the Compliance Section will advise you by letter of the disposition of the case.

As previously mentioned, we have attached to this letter a summary of alleged violations, citing the applicable TNRCC rules. If you would like to obtain a copy of Chapter 70 or any other TNRCC rules, you may contact any of the sources listed in the enclosed brochure entitled "Obtaining TNRCC Rules."

If you have any questions regarding these matters, please contact Rebecca Ohler at (713) 767-3731.

Sincerely,

Jerry Priddy for
Karen Atkinson
Acting Air Program Manager, Region 12

KA/REO/lqg

Enclosures: TNRCC Rule, 30 TAC 115.542(b)(1)
"Enforcement Related Provisions of the Texas Clean Air Act"
"Formal Enforcement Options"
"Obtaining TNRCC Rules"

cc: Mr. John R. Eldridge, Attorney At Law, Hutcheson & Grundy, L.L. P., 1200 Smith, Suite 3300, Houston, Texas 77002-4579
bcc: Ms. Jeanne Philquist, Manager, Air Section, Enforcement Division, TNRCC
LP/NOV/board,file

Hercules Marine Services
Complaint Investigation Conducted May 5, 1997

Summary of Outstanding Alleged Violations

1. 30 TAC 115.542(b)(1) Control Requirements

For all persons in the Beaumont/Port Arthur and Houston/Galveston areas, the following control requirements shall apply to marine vessels:

(1) No person shall permit the degassing or cleaning of a marine vessel containing VOCs unless the vapors are processed by a vapor control system.

The Emissions Specifications found in 30 TAC 115.541(b)(1) state:
(b) For all persons in the Beaumont/Port Arthur and Houston/Galveston area, the following emission specifications shall apply to degassing during or in preparation of cleaning for all marine vessels...which have a nominal storage capacity of 10,000 barrels or more and contain VOCs.

(1) No person shall degas or clean a tank that carried a VOC with a vapor partial pressure greater than or equal to 0.5 pounds per square inch absolute unless the vapors are processed by a vapor control system.

Hercules Marine Services cleaned barges with a nominal capacity of 10,000 barrels on the following dates which contained cyclohexane, a product with a vapor pressure of 1.83 psia:

DATE	BARGE NUMBER	MATERIAL IN BARGE
2/9/97	ETT110	CYCLOHEXANE
2/18/97	ETT115	CYCLOHEXANE
2/22/97	ETT113	CYCLOHEXANE
3/6/97	ETT114	CYCLOHEXANE
3/6/97	ETT112	CYCLOHEXANE
4/20/97	ETT112	CYCLOHEXANE
4/23/97	ETT113	CYCLOHEXANE
4/27/97	ETT112	CYCLOHEXANE

2. 30 TAC 116.110(a)
Loading of Anolon occurred at Hercules on March 7, 1997. This activity is not authorized by any existing permit at this facility and has not been documented to meet the emissions limits of a Standard Exemption.

Hercules Marine Services
Complaint Investigation Conducted May 5, 1997

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4/20/97	ETT112	CYCLOHEXANE
4/23/97	ETT113	CYCLOHEXANE
4/27/97	ETT112	CYCLOHEXANE

2. 30 TAC 116.110(a)
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FORMAL ENFORCEMENT OPTIONS

Option one, which is often used, is for the TNRCC to negotiate an Agreed Order with your company. An Agreed Order is a legally binding document that incorporates your schedule and commitment for achieving compliance. Such an order typically includes administrative penalties which can range up to a maximum of $10,000 per day for each violation.

Option two is to refer your case to the Texas State Office of Administrative Hearings for a contested case hearing. Staff recommendations for administrative penalties to settle contested proceedings typically are higher than settlement offers for agreed orders.

Option three is to refer your case to the Attorney General's Office for legal action. The Attorney General may seek to recover civil penalties of $50 to $25,000 for each day of violation. The Attorney General may also seek a court order requiring that you cease (construction/operation) of the facility until you obtain a permit.

ADMINISTRATIVE PENALTY
REFERRAL PACKAGE CHECKLIST

THE FOLLOWING ITEMS SHOULD BE INCLUDED IN ANY AP/BO PACKAGE:

1. PENALTY WORK SHEET
2. SOURCE'S COMPLIANCE PLAN (RESPONSE TO FEC)
3. PSDB FOR FECX
4. FEC SUMMARY
5. LETTER TO SOURCE - original NOV was also a refer for enforcement letter - Attached

IF NOT PREVIOUSLY SENT/DISTRIBUTED TO AUSTIN, THE FOLLOWING ITEMS SHOULD ALSO BE INCLUDED:

6. NOV LETTER(S) ~~(2 copies)~~
7. SOURCE'S NOV RESPONSE LETTER(S) (same as fec resp
8. INVESTIGATIVE REPORT(S) ~~(2 copies)~~

CONFIDENTIAL

TNRCC
Enforcement Action Referral

CENTRAL OFFICE USE ONLY		
Region	12	
Media	air	

Rev. April 22, 1997

Section 1: Respondent

Name	Hercules Marine Services Corporation		Role	owner/operator
Mailing Address	Street/PO Box	Post Office Drawer O		
	City/State/Zip	Freeport, Texas 77541		
Primary Contact	Name	Jimmy Jackson	Title	Plant Manager
	Phone	409 233-6371	Fax	409 233-6375

Section 2: Facility/Operation (F/O)

F/O Name	Hercules Marine Service Corporation		
F/O Physical Location	906 Marlin		
County	Brazoria	Operational Status	active
F/O Type	barge cleaning and repair		
I.D. Number(s)	BL-0118-V		

Section 3: Miscellaneous

Potentially Affected Area	
Qualifies for No-Penalty Policy?	No. Prior knowledge of regulations and owned by a large corporation
General Enf Action Recommendations	Agreed Order
Regional Compliance Assistance	Numerous inspections at this facility, including an annual SIP inspection in December 1996 at which the requirements of Rule 115.542\ were specifically discussed.
Complaint No.(s) Closed at Regional Level by EAR (or N/A)	129700791 and 129700798

Section 4: Regional Office Information

Regional Contact	Name	Rebecca E. Ohler		
	Signature	Rebecca E. Ohler	Date	6/08/97
	Telephone	713 767-3731	Fax	
Program Manager	Name	Karen Atkinson Tony Pandolfo for KA 6/25/97	Phone	713 767-3710

Signature		Date	

Section 5: Summary of Violations

VL#	Requirements Cited	Date of Violation	Description of Violation	Source of Documentation
1	30 TAC 115.542(b)(1)	5/5/97	Hercules cleaned eight barges between February and April 1997 with out the control equipment required by this rule.	Investigation report dated 5/5/97
2	116.110(a)	5/5/97	Hercules loaded a barge with approximately 41,000 gallons of Anolon on March 7, 1997. This activity has not been authorized by a permit and has not been demonstrated to comply with a standard exemption.	Investigation report dated 5/5/97

Section 6: Additional Discussion

VL#	
1	In December 1996 the requirements of rule 115.542 were discussed in detail with the Plant Manager, Larry Ballinger. Mr. Ballinger was aware of the requirements of the rule and stated that until a thermal oxidizer was installed Hercules would not clean any barges which required the controls. The records reviewed at Hercules on 5/5/97 indicated that the material in all barges cleaned had a vapor pressure less than 0.5 psia. Upon checking with the owner of the barges it was determined that eight of the barges which Hercule's records stated contained normal butanol actually contained cyclohexane. Normal butanol has a vapor pressure less than 0.5 psia. Cyclohexane has a vapor pressure of 1.83 psia.
2	No other loading of barges has been documented at this facility.

Section 7: Prior Violations

VL#	

Section 8: Corrective Actions

VL#

1	Prior to the issuance of the NOV attorneys for Hercules contacted the Regional office and requested a meeting with the investigator and supervisor. On May 13, 1997 the meeting took place. The Region was informed that Mr. Ballinger had resigned from the company and a new plant manager, Mr. Jimmy Jackson, was in place. Hercules also is requiring approval by the head office in Houston for any barge cleaning activity. A copy of the meeting summary is included as an attachment to the inspection report.

Section 9: Other Areas of Concern

Section 10: Technical Recommendations

No cleaning barges which last contained a material with a vapor pressure greater than 0.5 psia unless the vapors are controlled as required by the rule.
Records of the material last contained in the barge must include documentation from the company who owns or operates the barge and is contracting the cleaning.

☒ Add
☐ Change
☐ Delete

☐ VIOLATION
☒ VIOLATION FOLLOW-UP

DISTRIBUTION:
White - Region/Local Program
Canary - Data Entry/Region
Pink - Investigator/Data Entry

6/30/97

TNRCC INVESTIGATION/VIOLATION FORM

(Boldfaced items are required)

1

Account Number BL0115V **Account Name** Hercules Marine Services
Date of Investigation (as MMDDYY) 06~~23~~97 **Off Hours:** ☐ Yes ☐ No
Investigator Staffcode RJOL **Permit(s)** 051397
Primary Investigator Juriscode 120 **Other Juriscode 1** ____ **Other Juriscode 2** ____
Site Name/Location 906 Marlin
Person Contacted/Phone Jimmy Jackson 409 833 6377

2

Investigation Number LL0030A **Related Previous Investigation Number** ____
Federal Program: ☐ Yes ☒ No NSPS: ☐ Yes ☒ No NESHAP: ☐ Yes ☒ No Situation Number (compliance div. only)
• **Investigation Type** FECX **In-House Investigation:** ☒ Yes ☐ No ~EPN ____
Comment FEC held for 115.541 violations discovered 5/5/97

➤➤➤ FOR RECORDING REVIEWS OF COMPANY-SUBMITTED REPORTS ONLY ◄◄◄
Date Test Conducted (as MMDDYY) ____ Date Report Received (as MMDDYY) ____
Analysis Review Results (C,N,U) ____ Permits(s) ____ Retest Required: ☐ Yes ☐ No

3

Investigation Number ____ **Related Previous Investigation Number** ____
Federal Program: ☐ Yes ☐ No NSPS: ☐ Yes ☐ No NESHAP: ☐ Yes ☐ No Situation Number (compliance div. only)
• **Investigation Type** ~~STPR~~ **In-House Investigation:** ☐ Yes ☐ No ~EPN ____
Comment ~~Typo/Delete~~

4

Investigation Number ____ **Local Ordinance:** ☐ Yes ☐ No
Violation Number ____ (changes/deletes only) **Situation Number** ____ (Compliance Div. only)
Cause/Description ____ (Compliance Div. only)
Rule Violated ____ **Contamcode** ____
Fill in the following applicable items:
Permit Number ____ **Permit Provision** ____
Board Order Number ____ **Court Order Number** ____ **CFR Part** ____
* **FIN Involved** ____ **Facility Name (optional)** ____
Violation Type: ☐ Clerical ☐ Non-Clerical ☐ Imminent Danger **Date NOV Sent (as MMDDYY)** ____
Date NOV Received (as MMDDYY) ____ (defaults to 5 days after date NOV sent)

4

Investigation Number ____ **Local Ordinance:** ☐ Yes ☐ No
Violation Number ____ (changes/deletes only) **Situation Number** ____ (Compliance Div. only)
Cause/Description ____ (Compliance Div. only)
Rule Violated ____ **Contamcode** ____
Fill in the following applicable items:
Permit Number ____ **Permit Provision** ____
Board Order Number ____ **Court Order Number** ____ **CFR Part** ____
* **FIN Involved** ____ **Facility Name (optional)** ____
Violation Type: ☐ Clerical ☐ Non-Clerical ☐ Imminent Danger **Date NOV Sent (as MMDDYY)** ____
Date NOV Received (as MMDDYY) ____ (defaults to 5 days after date NOV sent)

* See back for valid codes and investigation type codes matrix
~ EPN required for investigation types indicated on back with an ~
* FIN required for VOC violations as indicated with a * in the user's manual rule table

Investigator signature Rebecca S. Olin **Date** 6/23/97
Reviewed by [illegible] **Date** 6/25/97

(06-20-94) Screen ID: IV1, IVI1, VL1 Page ____ of ____

CONFERENCE REGISTER

Organizations/Agencies Represented: Hercules Marine

ATTENDEES	TITLE	ORGANIZATION
Rebecca Ohler	EQS V	TNRCC
Larry Priddy	Team Leader	TNRCC
Dick Flannery	Asst. to Air Prog Mgr.	TNRCC - Reg. 1
John Eldridge	Hutchison & Gundy	Hercules Marine
Bruce Stanfell	Bell & Murphy - Atty	" "
Larry Ballinger	—	—

CONFERENCE SUMMARY

Date: May 13, 1997 **Time:** 1:30 p.m. **Location:** TNRCC Region 12

Person Conducting Meeting: Dick Flannery

Subject: Hercules Marine Services, BL-0118-V

Summary: Mr. John Eldridge, Attorney at Law with Hutcheson & Grundy, represents Hercules Marine Services. On May 12, 1997 Mr. Eldridge contacted Rebecca Ohler at TNRCC Region 12 and requested to meet with Ms. Ohler concerning two visits made by TNRCC to the Hercules facility on May 5 and 7, 1997. The meeting was set for May 13, 1997.

On May 12, 1997 Mr. Larry Ballinger, formerly the Plant Manager at Hercules, also contacted Ms. Ohler to inform her that he would also be at the meeting, but that he had resigned from Hercules. He made it clear that the attorneys who would be present did not represent him.

Also present at the meeting was Mr. Bruce Stanfill, Attorney at Law with Bell & Murphy, who also represent Hercules.

Mr. Eldridge began the meeting by stating that he was new representing Hercules and that he was brought in specifically in relation to the two recent visits by Ms. Ohler. When upper management was informed of the two visits and questioned the reason for them Mr. Ballinger provided information to management concerning discrepancies which may exist in the barge cleaning records. He confirmed that Mr. Ballinger had resigned from Hercules. He stated that Hercules has serious concerns about the cleaning of barges that were not to be cleaned without fully functional control equipment. The management was not aware of this problem until informed of this by Mr. Ballinger. Hercules is working quickly to install the required equipment, and in the meantime will not clean barges which require the controls. Mr. Eldridge stated that some cyclohexane barges were cleaned without controls.

Mr. Eldridge stated that all barge paperwork is being routed through the Houston office for approval to conduct the work until they hire another plant manager. Mr. Jimmy Jackson is acting as Plant Manager at this time. They will not clean any more unauthorized barges. Mr. Ballinger said that the thermal oxidizer should be ready soon. A blower which is needed has been ordered.

Mr. Flannery asked if Mr. Eldridge would like to expand any on his statement concerning inconsistencies in the files. Mr. Eldridge said that there might have been some documentation missing from the files which were viewed during the inspection. Mr. Stanfill stated that because of the lawsuit which Hercules has filed against their neighbor many of the files have been pulled apart, with some of the information being in the lawyers offices. He also stated that the secretary in the Freeport office is relatively new and may not have been aware of all the information which should have been in the files which TNRCC requested.

Mr. Flannery asked how many barges were cleaned which required controls. Mr. Eldridge estimated 6 or 7 over a three month period.

Mr. Flannery asked if BASF who owned the barges knew that Hercules did not have the control equipment necessary to clean them legally. Mr. Ballinger stated he did not know if BASF knew this.

Mr. Flannery asked if it was possible to estimate the actual emissions from the cyclohexane barges. Mr. Ballinger explained that the barges arrive with between 100 and 300 gallons of material in them. This is stripped out of the barge and into the vacuum tank, then is transferred to a storage tank. The

RECORD OF TELEPHONE CALL

DATE: June 10, 1997
TIME: 11:00 a.m.

PERSON MAKING CALL: Becky Ohler **PHONE:** X3731
COMPANY: TNRCC **CITY:** Houston

PERSON RECEIVING CALL: Jimmy Jackson **PHONE:** 409 233-6371
COMPANY: Hercules Marine Services **CITY:** Surfside

SUBJECT: Resolution of 115.421 NOV dated 3/13/97

Account Number: BL-0118-V

SUMMARY: On May 29, 1997 a response letter to the NOV dated March 13, 1997 was received by fax at the Region 12 office. The reponse was not sufficient to document the facility had attained compliance within 30 days of the date of the NOV. On June 10, 1997 I contacted Mr. Jackson, Plant Manager, and requested he fax me the painting records for the facility since the date of the NOV. These were received the same day and showed painting occurred between April 21, 1997 and May 4, 1997. On June 16, 1997 I contacted Mr. Jackson who confirmed that no painting had occurred between March 13, 1997 and April 21, 1997.
The records received by fax indicate the facility is in compliance with Rule 115.421(a)(9)(A), but they also indicate that Hercules is now keeping the painting emissions below 3.0 lbs of VOC/hour and are therefore exempt from compliance with 115.421. The violation can be resolved based on this response by the company.

Purpose: Complaints 129700791, received April 14, 1997, and 129700798, received April 28, 1997, allege Hercules Marine Services in Freeport, Brazoria County, has cleaned barges with out the vapor controls required by Regulation V. The Emissions Specifications found in 30 TAC 115.541(b)(1) state:

(b) For all persons in the Beaumont/Port Arthur and Houston/Galveston area, the following emission specifications shall apply to degassing during or in preparation of cleaning for all marine vessels...which have a nominal storage capacity of 10,000 barrels or more and contain VOCs.

(1) No person shall degas or clean a tank that carried a VOC with a vapor partial pressure greater than or equal to 0.5 pounds per square inch absolute unless the vapors are processed by a vapor control system.

Both complainants provided barge identification numbers and dates when barges were worked on. The dates were in February and April 1997. The barges which were identified belong to BASF Corporation also located in the Freeport area.

Investigative Findings: On May 5, 1997 TNRCC investigators Faye Liu and Rebecca Ohler investigated the above complaints. At 10:30 a.m. Ms. Ohler and Ms. Liu arrived at Hercules Marine Services and met with Mr. Larry Ballinger, Plant Manager. The purpose of the visit was explained to Mr. Ballinger and the investigators requested to review the barge cleaning records for February, March, and April 1997. Mr. Ballinger first produced the "Job Book" which listed all work, including barge cleaning, which had been conducted at the facility. Sixteen barge cleaning activities were identified in the Job Book. Mr. Ballinger then produced individual folders for each of the barge cleaning activities. From the folders Mr. Ballinger showed the investigators the documents which stated the material last contained in the barges which were cleaned. The dates, barge number, and compound are listed in Attachment A. All barges cleaned belong to BASF Corporation. The records which were presented to the investigators indicated that all barges had contained materials with a vapor pressure less than 0.5 psia and could, therefore, be cleaned with out vapor control equipment per the exemption from controls found in 30 TAC 115.547(a). The investigators did not obtain copies of these files at this time, but documented the contents in field notes. Copies of the documents were obtained on May 7, 1997 and are in Attachment C.

The investigators proceeded to BASF Corporation and met with Mr. L.H. Moore, Logistics Manager. The purpose of the visit was explained as a follow up to a complaint investigation which alleged Hercules was washing barges which were not allowed by Regulation V. Mr. Moore contacted Mr. Mark Hanna, Technical Service Representative, and Mr. Robert Peters, Logistics Coordinator and requested they bring the "Barge Schedule" logs and provide the investigators with the requested information. The investigators requested information on the sixteen barges which were cleaned by Hercules between February and April. The results of this request are located in Attachment B. A comparison of the lists in Attachment A and Attachment

B shows that eight barges which Hercules lists as having contained n-butanol, a compound with a vapor pressure of less than 0.5 psia, actually contained cyclohexane which has a vapor pressure of 1.83 psia. Copies of the Barge Schedule log for the eight barges were obtained on May 7, 1997 from Mr. Peter's secretary, Ms. Suzette Johnson, and are contained in Attachment D. According to Mr. Peters all of the BASF barges have a nominal capacity of 10,000 barrels.

On May 9, 1997 Mr. John Eldridge, Attorney at Law representing Hercules, contacted Ms. Ohler and requested a meeting with TNRCC. The meeting was held on May 13, 1997. At this meeting the company admitted that barges containing cyclohexane had been cleaned without the required control equipment and that there were discrepancies in the records concerning what material had been in the barges prior to cleaning. The summary of that meeting and a copy of records provided by Hercules at that meeting can be found in Attachment E.

One of the sets of documents provided at this meeting, located in Attachment F, show that loading of Anolon occurred from Montgomery Tank Line tank trucks into some type of vessel, probably a barge, at Hercules on March 7, 1997. A total of 308,540 pounds of Anolon were delivered to Hercules on March 7, 1997. This is approximately equal to 41,000 gallons. This activity is not authorized by any existing permit at this facility and due to the low Threshold Limit Value of Anolon may not be able to meet the emissions limits of either Standard Exemption 106.261 or 106.262. Hercules will be required to submit documentation concerning compliance with an applicable standard exemption. At this time it appears they are in violations of 30 TAC 116.110(a). Due to the vapor pressure of Anolon (approximately 0.04 psia) the facility is exempt from the control requirements found in 30 TAC 115.212(a) and the monitoring and recordkeeping requirements found in 115.216(a) by the exemption found at 115.217(a)(2). The facility is, however, still subject to the inspection requirements found in 115.214(a). There are no recordkeeping requirements associated with the visual inspection requirements so it is unknown at this time if the required inspections were conducted.

Conclusion: Hercules Marine Services has cleaned eight barges in a three month period which contained cyclohexane as their last cargo. Hercules does not have a vapor control system. This constitutes a violation of the control requirements found in 30 TAC 115.542(b)(1) which state:
(b) For all persons in the ...Houston/Galveston areas the following control requirements shall apply to marine vessels:

> (1) No person shall permit the degassing or cleaning of a marine vessel containing VOCs unless the vapors are processed by a vapor control system.

In addition, Hercules conducted loading operations on at least one date, March 7, 1997, which are not authorized by a permit and which have not been shown to comply with any Standard Exemption. Hercules will be cited for a violation of 30 TAC 116.110(a). This violation may be

rescinded if they can show compliance with an applicable standard exemption.

Mr. Jimmy Jackson, Manager, will be issued a Notice of Violation for the above cited offenses. This violation will be forwarded the Office of Compliance and Enforcement for formal enforcement action.

Rebecca E. Ohler
EQS V
Region 12

ATTACHMENT A

INFORMATION CONTAINED IN HERCULES FILES ON MAY 5, 1997

DATE	BARGE NUMBER	MATERIAL IN BARGE
2/5/97	ETT115	CAPROLACTAM
2/9/97	ETT110	N-BUTANOL
2/12/97	ETT112	N-BUTANOL
2/18/97	ETT115	N-BUTANOL
2/22/97	ETT113	N-BUTANOL
3/3/97	ETT115	N-BUTANOL
3/4/97	ETT110	CAPROLACTAM
3/6/97	ETT114	N-BUTANOL
3/6/97	ETT112	ANOLON
3/24/97	ETT112	ANOLON
3/27/97	ETT115	N-BUTANOL
4/17/97	ETT110	ANOLON
4/20/97	ETT112	N-BUTANOL
4/23/97	ETT113	N-BUTANOL
4/27/97	ETT112	N-BUTANOL
4/28/97	ETT113	ANOLON

ATTACHMENT B

INFORMATION PROVIDED BY BASF CONCERNING MATERIALS IN BARGES DELIVERED TO HERCULES FOR CLEANING

DATE	BARGE NUMBER	MATERIAL IN BARGE
2/5/97	ETT115	CAPROLACTAM
2/9/97	ETT110	CYCLOHEXANE
2/12/97	ETT112	N-BUTANOL
2/18/97	ETT115	CYCLOHEXANE
2/22/97	ETT113	CYCLOHEXANE
3/3/97	ETT115	N-BUTANOL
3/4/97	ETT110	CAPROLACTAM
3/6/97	ETT114	CYCLOHEXANE
3/6/97	ETT112	CYCLOHEXANE
3/24/97	ETT112	ANOLON
3/27/97	ETT115	N-BUTANOL
4/17/97	ETT110	ANOLON
4/20/97	ETT112	CYCLOHEXANE
4/23/97	ETT113	CYCLOHEXANE
4/27/97	ETT112	CYCLOHEXANE
4/28/97	ETT113	ANOLON

ATTACHMENT C

DOCUMENTATION COPIED FROM HERCULES FILES ON MAY 7, 1997
WHICH IDENTIFIES THE MATERIAL IN THE BARGES BEING CLEANED

CONFERENCE SUMMARY

Date: May 13, 1997 **Time:** 1:30 p.m. **Location:** TNRCC Region 12

Person Conducting Meeting: Dick Flannery

Subject: Hercules Marine Services, BL-0118-V

Summary: Mr. John Eldridge, Attorney at Law with Hutcheson & Grundy, represents Hercules Marine Services. On May 12, 1997 Mr. Eldridge contacted Rebecca Ohler at TNRCC Region 12 and requested to meet with Ms. Ohler concerning two visits made by TNRCC to the Hercules facility on May 5 and 7, 1997. The meeting was set for May 13, 1997.

On May 12, 1997 Mr. Larry Ballinger, formerly the Plant Manager at Hercules, also contacted Ms. Ohler to inform her that he would also be at the meeting, but that he had resigned from Hercules. He made it clear that the attorneys who would be present did not represent him.

Also present at the meeting was Mr. Bruce Stanfill, Attorney at Law with Bell & Murphy, who also represent Hercules.

Mr. Eldridge began the meeting by stating that he was new representing Hercules and that he was brought in specifically in relation to the two recent visits by Ms. Ohler. When upper management was informed of the two visits and questioned the reason for them Mr. Ballinger provided information to management concerning discrepancies which may exist in the barge cleaning records. He confirmed that Mr. Ballinger had resigned from Hercules. He stated that Hercules has serious concerns about the cleaning of barges that were not to be cleaned without fully functional control equipment. The management was not aware of this problem until informed of this by Mr. Ballinger. Hercules is working quickly to install the required equipment, and in the meantime will not clean barges which require the controls. Mr. Eldridge stated that some cyclohexane barges were cleaned without controls.

Mr. Eldridge stated that all barge paperwork is being routed through the Houston office for approval to conduct the work until they hire another plant manager. Mr. Jimmy Jackson is acting as Plant Manager at this time. They will not clean any more unauthorized barges. Mr. Ballinger said that the thermal oxidizer should be ready soon. A blower which is needed has been ordered.

Mr. Flannery asked if Mr. Eldridge would like to expand any on his statement concerning inconsistencies in the files. Mr. Eldridge said that there might have been some documentation missing from the files which were viewed during the inspection. Mr. Stanfill stated that because of the lawsuit which Hercules has filed against their neighbor many of the files have been pulled apart, with some of the information being in the lawyers offices. He also stated that the secretary in the Freeport office is relatively new and may not have been aware of all the information which should have been in the files which TNRCC requested.

Mr. Flannery asked how many barges were cleaned which required controls. Mr. Eldridge estimated 6 or 7 over a three month period.

Mr. Flannery asked if BASF who owned the barges knew that Hercules did not have the control equipment necessary to clean them legally. Mr. Ballinger stated he did not know if BASF knew this.

Mr. Flannery asked if it was possible to estimate the actual emissions from the cyclohexane barges. Mr. Ballinger explained that the barges arrive with between 100 and 300 gallons of material in them. This is stripped out of the barge and into the vacuum tank, then is transferred to a storage tank. The

rescinded if they can show compliance with an applicable standard exemption.

Mr. Jimmy Jackson, Manager, will be issued a Notice of Violation for the above cited offenses. This violation will be forwarded the Office of Compliance and Enforcement for formal enforcement action.

Rebecca E. Ohler
EQS V
Region 12

ATTACHMENT A

INFORMATION CONTAINED IN HERCULES FILES ON MAY 5, 1997

DATE	BARGE NUMBER	MATERIAL IN BARGE
2/5/97	ETT115	CAPROLACTAM
2/9/97	ETT110	N-BUTANOL
2/12/97	ETT112	N-BUTANOL
2/18/97	ETT115	N-BUTANOL
2/22/97	ETT113	N-BUTANOL
3/3/97	ETT115	N-BUTANOL
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4/23/97	ETT113	CYCLOHEXANE
4/27/97	ETT112	CYCLOHEXANE
4/28/97	ETT113	ANOLON

ATTACHMENT C

DOCUMENTATION COPIED FROM HERCULES FILES ON MAY 7, 1997
WHICH IDENTIFIES THE MATERIAL IN THE BARGES BEING CLEANED

CONFERENCE SUMMARY

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Mr. Flannery asked if it was possible to estimate the actual emissions from the cyclohexane barges. Mr. Ballinger explained that the barges arrive with between 100 and 300 gallons of material in them. This is stripped out of the barge and into the vacuum tank, then is transferred to a storage tank. The

vacuum removes all liquid. He estimated that only a couple of gallons of liquid would remain after stripping. This represents the product which is held by the rust. The removed product is sold by Hercules as a blend stock.
Mr. Flannery explained the new penalty policy and requested a written letter as a follow up to this meeting to put in writing the things presented today. It was explained that the investigation is still on-going so it is not possible to say at this time what the consequences of this violation will be.

Required Action: The current investigation will continue and will incorporated the information provided at this meeting.

Rebecca E. Ohler
Region 12

ATTACHMENT D

DOCUMENTATION PROVIDED BY BASF CORPORATION ON MAY 7, 1997 CONCERNING THE MATERIAL IN THE BARGES DELIVERED TO HERCULES TO BE CLEANED. THIS INCLUDES ONLY THE DATES WHICH DISAGREE WITH HERCULES FILES

(Ms. Suzette Johnson explained the system used in the enclosed files. Any barge which shows either Citgo, Phillips, Koch, Huntsman, or Chevron contain cyclohexane. Also, any barge which is put in for a "strip and blow dry" also contained cyclohexane. Some of the entries specifically identify the cargo as cyclohexane.)

ATTACHMENT E

ADDITIONAL DOCUMENTATION PROVIDED BY HERCULES
AT THE 5/13/97 MEETING

ATTACHMENT F

DOCUMENTATION OF THE LOADING OF ANOLON FROM TANK TRUCKS

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TNRCC
Enforcement Action Referral

CENTRAL OFFICE USE ONLY	Region	12
	Media	air

Rev. April 22, 1997

Section 1: Respondent

Name	Hercules Marine Services Corporation		Role	owner/operator
Mailing Address	Street/PO Box	Post Office Drawer O		
	City/State/Zip	Freeport, Texas 77541		
Primary Contact	Name	Jimmy Jackson	Title	Plant Manager
	Phone	409 233-6371	Fax	409 233-6375

Section 2: Facility/Operation (F/O)

F/O Name	Hercules Marine Service Corporation		
F/O Physical Location	906 Marlin		
County	Brazoria	Operational Status	active
F/O Type	barge cleaning and repair		
I.D. Number(s)	BL-0118-V		

Section 3: Miscellaneous

Potentially Affected Area	
Qualifies for No-Penalty Policy?	No. Prior knowledge of regulations and owned by a large corporation
General Enf Action Recommendations	Agreed Order
Regional Compliance Assistance	Numerous inspections at this facility, including an annual SIP inspection in December 1996 at which the requirements of Rule 115.542\ were specifically discussed
Complaint No.(s) Closed at Regional Level by EAR (or N/A)	129700791 and 129700798

Section 4: Regional Office Information

Regional Contact	Name	Rebecca E. Ohler		
	Signature		Date	
	Telephone	713 767-3731	Fax	
Program Manager	Name	Karen Atkinson	Phone	713 767-3710

Signature		Date	

Section 5: Summary of Violations

VL#	Requirements Cited	Date of Violation	Description of Violation	Source of Documentation
1	30 TAC 115.542(b)(1)	5/5/97	Hercules cleaned eight barges between February and April 1997 with out the control equipment required by this rule.	Investigation report dated 5/5/97
2	116.110(a)	5/5/97	Hercules loaded a barge with approximately 41,000 gallons of Anolon on March 7, 1997. This activity has not been authorized by a permit and has not been demonstrated to comply with a standard exemption.	Investigation report dated 5/5/97

Section 6: Additional Discussion

VL#	
1	**In December 1996 the requirements of rule 115.542 were discussed in detail with the Plant Manager, Larry Ballinger. Mr. Ballinger was aware of the requirements of the rule and stated that until a thermal oxidizer was installed Hercules would not clean any barges which required the controls.** **The records reviewed at Hercules on 5/5/97 indicated that the material in all barges cleaned had a vapor pressure less than 0.5 psia. Upon checking with the owner of the barges it was determined that eight of the barges which Hercule's records stated contained normal butanol actually contained cyclohexane. Normal butanol has a vapor pressure less than 0.5 psia. Cyclohexane has a vapor pressure of 1.83 psia.**
2	No other loading of barges has been documented at this facility.

Section 7: Prior Violations

VL#	

Section 8: Corrective Actions

VL#

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1	Prior to the issuance of the NOV attorneys for Hercules contacted the Regional office and requested a meeting with the investigator and supervisor. On May 13, 1997 the meeting took place. The Region was informed that Mr. Ballinger had resigned from the company and a new plant manager, Mr. Jimmy Jackson, was in place. Hercules also is requiring approval by the head office in Houston for any barge cleaning activity. A copy of the meeting summary is included as an attachment to the inspection report.

Section 9: Other Areas of Concern

Section 10: Technical Recommendations

No cleaning barges which last contained a material with a vapor pressure greater than 0.5 psia unless the vapors are controlled as required by the rule.
Records of the material last contained in the barge must include documentation from the company who owns or operates the barge and is contracting the cleaning.

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HERCULES
MARINE SERVICES CORPORATION
Strength through environmental awareness and customer service
P.O. Drawer O
Freeport, Texas 77541
Office (409) 233-6371
Fax. (409) 233-6375

RECEIVED
JUN 30 1997
REGION 12

June 27, 1997

Ms. Becky Ohler
TNRCC
5425 Polk Avenue, Suite H
Houston, TX 77023-1423

Dear Becky:

On March 7, 1997, Hercules Marine Services furnished dock space to unload six trucks of Anolon* on to the ETT 112 barge. Claudio Duarte, the barge cleaning foreman, had his workers on standby with the equipment needed in case of a spill. BASF's Corporation tankerman was in charge of the loading process as all six trucks were unloaded.

Hercules Marine Services was advised that it was the truck driver's responsibility to connect the hose to the manifold of the truck. The hose for loading or unloading is connected from the truck pipeline to the header on the barge. This is designed to eliminate emissions to the atmosphere. The truck and barge both have vapor recovery systems. There was no spill or VOC release during that time of operation.

According to former Hercules Marine Services Manager, Larry Ballinger, the reason for the loading of Anolon* was that the plant was having problems. I, Jimmy Jackson, was not there at that time. I believe that the individuals involved with the loading process did not know that the standard exemption was not acceptable. In the future, loading or unloading will not be done without the proper procedures and permits.

The Oxidizer Blower has been ordered and will be here in approximately ten days. We are now 98% complete and after the blower is installed and the tests are performed, we will be in compliance to clean barges with vapor pressures above 0.5 pounds per square inch.

Hercules Marine Services will advise TNRCC within ten days of start up of the Oxidizer.

Jimmy Jackson

Jimmy Jackson, Acting Manager
Hercules Marine Services

cc: Thomas Seward, President

*Registered Trademark