



## Interoffice Communication

To P. B. Butler, Lake Charles Refinery  
From M. Cleveland  
Date June 22, 1990  
Subject SARA TITLE III, SECTION 313 FILING

Enclosed please find the Lake Charles Refinery's copy of the SARA Title III Section 313 Form R reports. Enclosed should be a paper copy, a diskette, and two cover letters: one to go with the paper copy, and one with the diskette. Have the Refinery Manager sign each report so that they may be filed. Copies of each report should be sent by the U.S. Post Office "Return Receipt Requested" mail service. Please attach the TRI Facility Identification Number label to the package sent to the EPA.

The paper copy is to be filed by July 1 to the state at the following address:

Mr. R. Bruce Hammatt  
Emergency Response Coordinator  
Department of Environmental Quality  
P.O. Box 44066  
333 Laurel Street  
Baton Rouge, LA 73152

The diskette is to be filed with the EPA by July 1 at the following address:

EPCRA Reporting Center  
P.O. Box 23779  
Washington, D.C. 20026-3779  
Attn: Toxic Chemical Release Inventory

The cover letter was written in accordance with the EPA Magnetic Media filing instructions and needs to be signed by the Refinery Manager.

If you have any questions concerning the filing of the reports, feel free to call me (639-1659) or Karen Kennedy (639-1918). Please send a signed hard copy of Form R's to PED, Ponca City to be included in the documentation packages.

Mickie Cleveland  
Refining Services

MC:ci

cc w/o att: J. E. Cearley, K. L. Kennedy - Houston  
B. Schroer - Ponca City  
D. R. Unruh - Lake Charles

SAL 000003948

EPA U.S. Environmental Protection Agency  
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM  
Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,  
also known as Title III of the Superfund Amendments and Reauthorization Act.

Page 1 of 5

Ammonia  
Conoco Lake Charles Refi

EPA FORM R PART 1. FACILITY IDENTIFICATION SECTION

1.1 Are you claiming the chemical identity on page 3 trade secret?  
☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy:  
☐ Sanitized ☐ Unsanitized

1.3 Reporting Year  
1989

2. CERTIFICATION (Read and sign after completing all sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official

Don R. Unruh

Refinery Manager

Signature

Date signed  
06-20-90

3. Facility Identification

Facility or Establishment Name  
Conoco Lake Charles Refinery

Street Address  
Old Spanish Trail

City  
Westlake

County  
Calcasieu

State  
LA

Zip Code  
70669

TRI Facility Identification Number  
70669 CNCLK OLDSP

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER  
P.O. BOX 23799  
WASHINGTON, DC 20026-3779  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check one): a. ☒ An entire facility b. ☐ Part of a facility.

3.3 Technical Contact  
Brandt Butler

Telephone Number  
(318) 491-5599

3.4 Public Contact  
Don R. Unruh

Telephone Number  
(318) 491-5222

3.5 SIC Code (4 digit)  
a. 2911 b. NA c. NA d. NA e. NA f. NA

3.6 Latitude Longitude

| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
|---------|---------|---------|---------|---------|---------|
| 030     | 14      | 36      | 093     | 16      | 20      |

3.7 Dun & Bradstreet Number(s)  
a. 00-842-7692 b. NA

3.8 EPA Identification Number(s) (RCRA I.D. No.)  
a. LAD990683716 b. NA

3.9 NPDES Permit Number(s)  
a. LA0003026 b. NA

3.10 Receiving Streams or Water Bodies (enter one name per box)  
a. Bayou Verdine b. NA  
c. NA d. NA  
e. NA f. NA

Underground Injection Well Code (UIC) Identification Number(s)  
a. NA b. NA

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company  
E. I. Du Pont De Nemours

4.2 Parent Company's Dun & Bradstreet Number  
00-131-5704

## EPA Form R Part II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

Ammonia  
Conoco Lake Charles Ref

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

|                     |        |                     |        |
|---------------------|--------|---------------------|--------|
| 1.1 POTW name<br>NA |        | 1.2 POTW name<br>NA |        |
| Street Address      |        | Street Address      |        |
| City                | County | City                | County |
| State               | Zip    | State               | Zip    |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

|                                                                                      |                     |                                                                                      |                     |
|--------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|---------------------|
| 2.1 Off-site location name<br>BFI                                                    |                     | 2.2 Off-site location name<br>CMI                                                    |                     |
| EPA Identification Number (RCRA ID No.)<br>NA                                        |                     | EPA Identification Number (RCRA ID No.)<br>LAD000777201                              |                     |
| Street Address<br>Cities Service Hwy @ I-10                                          |                     | Street Address<br>Rt 2, John Brannon Rd                                              |                     |
| City<br>Sulfur                                                                       | County<br>Calcasieu | City<br>Carlyss                                                                      | County<br>Calcasieu |
| State<br>LA                                                                          | Zip<br>70664        | State<br>LA                                                                          | Zip<br>70663        |
| Is location under control of reporting facility or parent company?<br>[ ] Yes [X] No |                     | Is location under control of reporting facility or parent company?<br>[ ] Yes [X] No |                     |
| 2.3 Off-site location name<br>NA                                                     |                     | 2.4 Off-site location name<br>NA                                                     |                     |
| EPA Identification Number (RCRA ID No.)                                              |                     | EPA Identification Number (RCRA ID No.)                                              |                     |
| Street Address                                                                       |                     | Street Address                                                                       |                     |
| City                                                                                 | County              | City                                                                                 | County              |
| State                                                                                | Zip                 | State                                                                                | Zip                 |
| Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |                     | Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |                     |
| 2.5 Off-site location name<br>NA                                                     |                     | 2.6 Off-site location name<br>NA                                                     |                     |
| EPA Identification Number (RCRA ID No.)                                              |                     | EPA Identification Number (RCRA ID No.)                                              |                     |
| Street Address                                                                       |                     | Street Address                                                                       |                     |
| City                                                                                 | County              | City                                                                                 | County              |
| State                                                                                | Zip                 | State                                                                                | Zip                 |
| Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |                     | Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |                     |
| [ ] Check if additional pages of Part II are attached. How many? [ ]                 |                     |                                                                                      |                     |

SAL 000003950

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION

Ammonia  
Conoco Lake Charles Refi

## 1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting chemical category.)  
007664-41-71.3 Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)  
Ammonia

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

## 2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

## 3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

3.1 Manufacture the chemical: a. ☐ Produce If produce or import: c. ☐ For on-site use/processing d. ☐ For sale/distribution  
b. ☐ Import e. ☐ As a byproduct f. ☐ As an impurity

3.2 Process the chemical: a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☐ Repackaging only

3.3 Otherwise use the chemical: a. ☒ As a chemical processing aid b. ☐ As a manufacturing aid c. ☐ Ancillary or other use

## 4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[03] (enter code)

## 5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)

|                                                                                                                                     |                                           | A. Total Releases (lbs/yr) |                          |                          | B. Basis of Estimate (enter code) |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------|--------------------------|--------------------------|-----------------------------------|---------------------------------|
|                                                                                                                                     |                                           | A.1 Reporting Ranges       |                          | A.2 Enter Estimate       |                                   |                                 |
|                                                                                                                                     |                                           | 0                          | 1-499                    | 500-999                  |                                   |                                 |
| 5.1 Fugitive or non-point air emissions                                                                                             | 5.1a                                      | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | 1600                              | 5.1b <input type="checkbox"/>   |
| 5.2 Stack or point air emissions                                                                                                    | 5.2a                                      | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.2b <input type="checkbox"/>   |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.1 <input checked="" type="checkbox"/> | 5.3.1a                     | <input type="checkbox"/> | <input type="checkbox"/> | 2200                              | 5.3.1b <input type="checkbox"/> |
|                                                                                                                                     | 5.3.2 <input type="checkbox"/>            | 5.3.2a                     | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.3.2b <input type="checkbox"/> |
|                                                                                                                                     | 5.3.3 <input type="checkbox"/>            | 5.3.3a                     | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.3.3b <input type="checkbox"/> |
|                                                                                                                                     |                                           |                            |                          |                          |                                   |                                 |
| 5.4 Underground Injection                                                                                                           | 5.4a                                      | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.4b <input type="checkbox"/>   |
| 5.5 Releases to land                                                                                                                |                                           |                            |                          |                          |                                   |                                 |
| 5.5.1 On-site landfill                                                                                                              | 5.5.1a                                    | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.5.1b <input type="checkbox"/> |
| 5.5.2 Land treatment/application farming                                                                                            | 5.5.2a                                    | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.5.2b <input type="checkbox"/> |
| 5.5.3 Surface impoundment                                                                                                           | 5.5.3a                                    | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.5.3b <input type="checkbox"/> |
| 5.5.4 Other disposal                                                                                                                | 5.5.4a                                    | <input type="checkbox"/>   | <input type="checkbox"/> | <input type="checkbox"/> | NA                                | 5.5.4b <input type="checkbox"/> |

C. % From Stormwater  
5.3.1c NA  
5.3.2c  
5.3.3c

(Check if additional information is provided on Part IV - Supplemental Information)

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

Ammonia  
Conoco Lake Charles Re

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)

|                                                                                |        | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|--------------------------------------------------------------------------------|--------|-----------------------------------------|--------------------|--|-----------------------------------|---------------------------------------------|
|                                                                                |        | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                             |
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.)       | 1. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.1.1b [ ]                        |                                             |
| 6.2.1 Other Off-Site Location (enter location number from Part II, Section 2.) | 2. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.2.1b [ ]                        | 6.2.1c                                      |
| 6.2.2 Other Off-Site Location (enter location number from Part II, Section 2.) | 2. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.2.2b [ ]                        | 6.2.2c                                      |
| 6.2.3 Other Off-Site Location (enter location number from Part II, Section 2.) | 2. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.2.3b [ ]                        | 6.2.3c                                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

| General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes No |
|----------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|------------------------------------|
| 7.1a W                           | 7.1b B11                         | 7.1c 3                                          | 7.1d [ ]                                       | 7.1e 36.00 %                     | 7.1f [ ] [X]                       |
| 7.2a W                           | 7.2b P42                         | 7.2c 2                                          | 7.2d [ ]                                       | 7.2e 98.00 %                     | 7.2f [ ] [X]                       |
| 7.3a [ ]                         | 7.3b NA                          | 7.3c [ ]                                        | 7.3d [ ]                                       | 7.3e %                           | 7.3f [ ] [ ]                       |
| 7.4a [ ]                         | 7.4b NA                          | 7.4c [ ]                                        | 7.4d [ ]                                       | 7.4e %                           | 7.4f [ ] [ ]                       |
| 7.5a [ ]                         | 7.5b NA                          | 7.5c [ ]                                        | 7.5d [ ]                                       | 7.5e %                           | 7.5f [ ] [ ]                       |
| 7.6a [ ]                         | 7.6b NA                          | 7.6c [ ]                                        | 7.6d [ ]                                       | 7.6e %                           | 7.6f [ ] [ ]                       |
| 7.7a [ ]                         | 7.7b NA                          | 7.7c [ ]                                        | 7.7d [ ]                                       | 7.7e %                           | 7.7f [ ] [ ]                       |
| 7.8a [ ]                         | 7.8b NA                          | 7.8c [ ]                                        | 7.8d [ ]                                       | 7.8e %                           | 7.8f [ ] [ ]                       |
| 7.9a [ ]                         | 7.9b NA                          | 7.9c [ ]                                        | 7.9d [ ]                                       | 7.9e %                           | 7.9f [ ] [ ]                       |
| 7.10a [ ]                        | 7.10b NA                         | 7.10 [ ]                                        | 7.10d [ ]                                      | 7.10e %                          | 7.10f [ ] [ ]                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type or Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal |                     |                   | C. Index | D. Reason for Action (enter code) |
|--------------------------------------|----------------------------------------------------------------------|---------------------|-------------------|----------|-----------------------------------|
|                                      | Current reporting year (lbs/yr)                                      | Prior year (lbs/yr) | Or Percent Change |          |                                   |
| M [ ]                                |                                                                      |                     | [ ]+ [ ]-         | % [ ]    | R [ ]                             |

## EPA FORM R PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III.

Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

Ammonia

Conoco Lake Charles Refi

## ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT

(Part III, Section 5.3)

| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)                                                                | A. Total Releases (lbs/yr)              |                    |  | B. Basis of Estimate (enter code)                              |                                                                                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|----------------------------------------------------------------|----------------------------------------------------------------------------------------|
|                                                                                                                                                                           | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                                                |                                                                                        |
| 5.3 Discharges to receiving streams or water bodies 5.3.[ ] [ ] [ ]<br>(Enter letter code from 5.3.[ ] [ ] [ ]<br>Part I Section 3.10 for stream(s) in the box provided.) | 5.3.[ ] 1a [ ] [ ] [ ]                  | [ ] [ ] [ ]        |  | 5.3.[ ] 1b [ ] [ ]<br>5.3.[ ] 1b [ ] [ ]<br>5.3.[ ] 1b [ ] [ ] | C. % From Stormwater<br>5.3.[ ] 1c [ ] [ ]<br>5.3.[ ] 1c [ ] [ ]<br>5.3.[ ] 1c [ ] [ ] |

## ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

(Part III, Section 6)

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|-----------------------------------|---------------------------------------------|
|                                                                                                             | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                             |
| Discharge to POTW<br>[ ] (enter location number from Part II, Section 1.) 1.[ ] [ ] [ ]                     | [ ] [ ] [ ]                             |                    |  | 6.1.[ ] 1b [ ] [ ]                |                                             |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.) 2.[ ] [ ] [ ]              | [ ] [ ] [ ]                             |                    |  | 6.2.[ ] 1b [ ] [ ]                | 6.2.[ ] 1c [ ] [ ]                          |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.) 2.[ ] [ ] [ ]              | [ ] [ ] [ ]                             |                    |  | 6.2.[ ] 1b [ ] [ ]                | 6.2.[ ] 1c [ ] [ ]                          |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.) 2.[ ] [ ] [ ]              | [ ] [ ] [ ]                             |                    |  | 6.2.[ ] 1b [ ] [ ]                | 6.2.[ ] 1c [ ] [ ]                          |

## ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? |     |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|-----------------------------|-----|
|                                     |                                  |                                                 |                                                |                                  | Yes                         | No  |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e %                       | 7.[ ] 1f [ ] [ ]            | [ ] |

EPA U.S. Environmental Protection Agency  
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM  
Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,  
also known as Title III of the Superfund Amendments and Reauthorization Act.

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Benzene  
Conoco Lake Charles Ref

EPA FORM R PART I. FACILITY IDENTIFICATION SECTION

- 1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.) 1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized 1.3 Reporting Year 1989

2. CERTIFICATION (Read and sign after completing all sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official  
Don R. Unruh Refinery Manager

Signature Date signed  
06-20-90

3. Facility Identification

Facility or Establishment Name  
Conoco Lake Charles Refinery

Street Address  
Old Spanish Trail

City County  
Westlake Calcasieu

State Zip Code  
LA 70669

TRI Facility Identification Number  
70669 CNCLK OLDSP

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER  
P.O. BOX 23799  
WASHINGTON, DC 20026-3779  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY  
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

- 3.2 This report contains information for (Check one): a. ☒ An entire facility b. ☐ Part of a facility.

3.3 Technical Contact Telephone Number  
Brandt Butler (318) 491-5599

3.4 Public Contact Telephone Number  
Don R. Unruh (318) 491-5222

3.5 SIC Code (4 digit) a. 2911 b. NA c. NA d. NA e. NA f. NA

3.6 Latitude Longitude  
Degrees Minutes Seconds Degrees Minutes Seconds  
030 14 36 093 16 20

3.7 Dun & Bradstreet Number(s) a. 00-842-7692 b. NA

3.8 EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716 b. NA

3.9 NPDES Permit Number(s) a. LA0003026 b. NA

3.10 Receiving Streams or Water Bodies (enter one name per box) a. Bayou Verdine b. NA  
c. NA d. NA  
e. NA f. NA

Underground Injection Well Code (UIC) Identification Number(s) a. NA b. NA

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. Du Pont De Nemours 4.2 Parent Company's Dun & Bradstreet Number 00-131-5704

## EPA Form R Part II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

Benzene  
Conoco Lake Charles Refi

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

|                     |        |                     |        |
|---------------------|--------|---------------------|--------|
| 1.1 POTW name<br>NA |        | 1.2 POTW name<br>NA |        |
| Street Address      |        | Street Address      |        |
| City                | County | City                | County |
| State               | Zip    | State               | Zip    |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

|                                                                                                                                           |                     |                                                                                                                                           |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 2.1 Off-site location name<br>BFI                                                                                                         |                     | 2.2 Off-site location name<br>CMI                                                                                                         |                     |
| EPA Identification Number (RCRA ID No.)<br>NA                                                                                             |                     | EPA Identification Number (RCRA ID No.)<br>IAD000777201                                                                                   |                     |
| Street Address<br>Cities Service Hwy @ I-10                                                                                               |                     | Street Address<br>Rt 2, John Brannon Rd                                                                                                   |                     |
| City<br>Sulfur                                                                                                                            | County<br>Calcasieu | City<br>Carlyss                                                                                                                           | County<br>Calcasieu |
| State<br>LA                                                                                                                               | Zip<br>70664        | State<br>LA                                                                                                                               | Zip<br>70663        |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     |
| 2.3 Off-site location name<br>NA                                                                                                          |                     | 2.4 Off-site location name<br>NA                                                                                                          |                     |
| EPA Identification Number (RCRA ID No.)                                                                                                   |                     | EPA Identification Number (RCRA ID No.)                                                                                                   |                     |
| Street Address                                                                                                                            |                     | Street Address                                                                                                                            |                     |
| City                                                                                                                                      | County              | City                                                                                                                                      | County              |
| State                                                                                                                                     | Zip                 | State                                                                                                                                     | Zip                 |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     |
| 2.5 Off-site location name<br>NA                                                                                                          |                     | 2.6 Off-site location name<br>NA                                                                                                          |                     |
| EPA Identification Number (RCRA ID No.)                                                                                                   |                     | EPA Identification Number (RCRA ID No.)                                                                                                   |                     |
| Street Address                                                                                                                            |                     | Street Address                                                                                                                            |                     |
| City                                                                                                                                      | County              | City                                                                                                                                      | County              |
| State                                                                                                                                     | Zip                 | State                                                                                                                                     | Zip                 |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     |

☐ Check if additional pages of Part II are attached. How many? [ ]

SAL 00000305

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION

Benzene  
Conoco Lake Charles Ref.

## 1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting chemical category.)  
000071-43-21.3 Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)  
Benzene

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

## 2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

## 3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

|                                 |                                                          |                                                        |                                                                   |                                                       |
|---------------------------------|----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------|
| 3.1 Manufacture the chemical:   | a. <input checked="" type="checkbox"/> Produce           | If produce or import:                                  | c. <input checked="" type="checkbox"/> For on-site use/processing | d. <input type="checkbox"/> For sale/distribution     |
|                                 | b. <input checked="" type="checkbox"/> Import            |                                                        | e. <input type="checkbox"/> As a byproduct                        | f. <input checked="" type="checkbox"/> As an impurity |
| 3.2 Process the chemical:       | a. <input checked="" type="checkbox"/> As a reactant     | b. <input type="checkbox"/> As a formulation component | c. <input type="checkbox"/> As an article component               |                                                       |
|                                 | d. <input type="checkbox"/> Repackaging only             |                                                        |                                                                   |                                                       |
| 3.3 Otherwise use the chemical: | a. <input type="checkbox"/> As a chemical processing aid | b. <input type="checkbox"/> As a manufacturing aid     | c. <input type="checkbox"/> Ancillary or other use                |                                                       |

## 4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

{07} (enter code)

## 5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)

|                                                                                                                                     |                                       | A. Total Releases (lbs/yr)              |                   |                   | B. Basis of Estimate (enter code) |                                                       |
|-------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------------------------------|-------------------|-------------------|-----------------------------------|-------------------------------------------------------|
|                                                                                                                                     |                                       | A.1 Reporting Ranges<br>0 1-499 500-999 |                   |                   | A.2 Enter Estimate                |                                                       |
| 5.1 Fugitive or non-point air emissions                                                                                             | 5.1a                                  | [ ]                                     | [ ]               | [ ]               | 18000                             | 5.1b [ O ]                                            |
| 5.2 Stack or point air emissions                                                                                                    | 5.2a                                  | [ ]                                     | [ ]               | [ ]               | 8600                              | 5.2b [ O ]                                            |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.1 [ a ]<br>5.3.2 [ ]<br>5.3.3 [ ] | 5.3.1a [ ]<br>5.3.2a [ ]<br>5.3.3a [ ]  | [ ]<br>[ ]<br>[ ] | [ ]<br>[ ]<br>[ ] | 34<br>NA<br>NA                    | 5.3.1b [ M ]<br>5.3.2b [ ]<br>5.3.3b [ ]              |
|                                                                                                                                     |                                       |                                         |                   |                   |                                   | C. % From Stormwater<br>5.3.1c NA<br>5.3.2c<br>5.3.3c |
| 5.4 Underground Injection                                                                                                           | 5.4a                                  | [ ]                                     | [ ]               | [ ]               | NA                                | 5.4b [ ]                                              |
| 5.5 Releases to land                                                                                                                |                                       |                                         |                   |                   |                                   |                                                       |
| 5.5.1 On-site landfill                                                                                                              | 5.5.1a                                | [ ]                                     | [ ]               | [ ]               | NA                                | 5.5.1b [ ]                                            |
| 5.5.2 Land treatment/application farming                                                                                            | 5.5.2a                                | [ ]                                     | [ ]               | [ ]               | NA                                | 5.5.2b [ ]                                            |
| 5.5.3 Surface impoundment                                                                                                           | 5.5.3a                                | [ ]                                     | [ ]               | [ ]               | NA                                | 5.5.3b [ ]                                            |
| 5.5.4 Other disposal                                                                                                                | 5.5.4a                                | [ ]                                     | [ ]               | [ ]               | NA                                | 5.5.4b [ ]                                            |

(Check if additional information is provided on Part IV - Supplemental Information)

SAL 000003956

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

Benzene  
Conoco Lake Charles Refi.

## 5. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

|                                                                                                             | A. Total Transfers (lbs/yr) | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------|-----------------------------------|---------------------------------------------|
|                                                                                                             |                             |                                   |                                             |
| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) |                             |                                   |                                             |
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1. [ ]                             | [ ] [ ] [ ]                 | NA                                | 6.1.1b [ ]                                  |
| 6.2.1 Other Off-Site Location (enter location number from Part II, Section 2.) 2. [2 ]                      | [ ] [ ] [ ]                 | 50                                | 6.2.1b [ O ] 6.2.1c M72                     |
| 6.2.2 Other Off-Site Location (enter location number from Part II, Section 2.) 2. [1 ]                      | [ ] [ ] [ ]                 | 62                                | 6.2.2b [ O ] 6.2.2c M72                     |
| 6.2.3 Other Off-Site Location (enter location number from Part II, Section 2.) 2. [ ]                       | [ ] [ ] [ ]                 | NA                                | 6.2.3b [ ] 6.2.3c                           |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

| A. Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes No |
|-----------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|------------------------------------|
| 7.1a [W ]                   | 7.1b [ B11 ]                     | 7.1c [4 ]                                       | 7.1d [ ]                                       | 7.1e 95.00 %                     | 7.1f [ ] [X]                       |
| 7.2a [A ]                   | 7.2b [ A07 ]                     | 7.2c [2 ]                                       | 7.2d [ ]                                       | 7.2e 88.00 %                     | 7.2f [X] [ ]                       |
| 7.3a [ ]                    | 7.3b [ NA ]                      | 7.3c [ ]                                        | 7.3d [ ]                                       | 7.3e %                           | 7.3f [ ] [ ]                       |
| 7.4a [ ]                    | 7.4b [ NA ]                      | 7.4c [ ]                                        | 7.4d [ ]                                       | 7.4e %                           | 7.4f [ ] [ ]                       |
| 7.5a [ ]                    | 7.5b [ NA ]                      | 7.5c [ ]                                        | 7.5d [ ]                                       | 7.5e %                           | 7.5f [ ] [ ]                       |
| 7.6a [ ]                    | 7.6b [ NA ]                      | 7.6c [ ]                                        | 7.6d [ ]                                       | 7.6e %                           | 7.6f [ ] [ ]                       |
| 7.7a [ ]                    | 7.7b [ NA ]                      | 7.7c [ ]                                        | 7.7d [ ]                                       | 7.7e %                           | 7.7f [ ] [ ]                       |
| 7.8a [ ]                    | 7.8b [ NA ]                      | 7.8c [ ]                                        | 7.8d [ ]                                       | 7.8e %                           | 7.8f [ ] [ ]                       |
| 7.9a [ ]                    | 7.9b [ NA ]                      | 7.9c [ ]                                        | 7.9d [ ]                                       | 7.9e %                           | 7.9f [ ] [ ]                       |
| 7.10a [ ]                   | 7.10b [ NA ]                     | 7.10 [ ]                                        | 7.10d [ ]                                      | 7.10e %                          | 7.10f [ ] [ ]                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal | C. Index            | D. Reason for Action (enter code) |
|--------------------------------------|----------------------------------------------------------------------|---------------------|-----------------------------------|
|                                      | Current reporting year (lbs/yr)                                      | Prior year (lbs/yr) | Or Percent Change                 |
| M [ ]                                |                                                                      |                     | [ ] +<br>[ ] - %                  |
|                                      |                                                                      |                     | [ ] R [ ]                         |

## EPA FORM R PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III.  
Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

Benzene  
Conoco Lake Charles Ref

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT  
(Part III, Section 5.3)

| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)                          | A. Total Releases (lbs/yr)              |                      |  | B. Basis of Estimate (enter code) |                                              |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|--|-----------------------------------|----------------------------------------------|
|                                                                                                                                     | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate   |  |                                   |                                              |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.[ ] [ ] [ ]                         | 5.3.[ ]a [ ] [ ] [ ] |  | 5.3.[ ]b [ ] [ ]                  | C. % From Stormwater<br>5.3.[ ]c [ ] [ ] [ ] |

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS  
(Part III, Section 6)

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|-----------------------------------|---------------------------------------------|
|                                                                                                             | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                             |
| 6.1.[ ] Discharge to POTW (enter location number from Part II, Section 1.)                                  | 1.[ ] [ ] [ ] [ ]                       |                    |  | 6.1.[ ]b [ ] [ ]                  |                                             |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ] [ ]                       |                    |  | 6.2.[ ]b [ ] [ ]                  | 6.2.[ ]c [ ] [ ] [ ]                        |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ] [ ]                       |                    |  | 6.2.[ ]b [ ] [ ]                  | 6.2.[ ]c [ ] [ ] [ ]                        |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ] [ ]                       |                    |  | 6.2.[ ]b [ ] [ ]                  | 6.2.[ ]c [ ] [ ] [ ]                        |

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? |     |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|-----------------------------|-----|
|                                     |                                  |                                                 |                                                |                                  | Yes                         | No  |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e %                         | 7.[ ]f [ ] [ ]              | [ ] |

1,3-Butadiene  
Conoco Lake Charles Refi

EPA FORM R PART I. FACILITY IDENTIFICATION SECTION

1.1 Are you claiming the chemical identity on page 3 trade secret?  
[ ] Yes (Answer question 1.2; [X] No (Do not answer 1.2;  
Attach substantiation forms.) Go to question 1.3.)

1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized

1.3 Reporting Year  
1989

2. CERTIFICATION (Read and sign after completing all sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official  
Don R. Unruh Refinery Manager

Signature Date signed  
06-20-90

3. Facility Identification

3.1 Facility or Establishment Name  
Conoco Lake Charles Refinery

Street Address  
Old Spanish Trail

City Westlake County Calcasieu

State LA Zip Code 70669

TRI Facility Identification Number  
70669 CNCLK OLDSP

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER  
P.O. BOX 23799  
WASHINGTON, DC 20026-3779  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact Brandt Butler Telephone Number (318) 491-5599

3.4 Public Contact Don R. Unruh Telephone Number (318) 491-5222

3.5 SIC Code (4 digit) a. 2911 b. NA c. NA d. NA e. NA f. NA

3.6 Latitude Longitude

| Degrees | Minutes | Seconds | Degrees | Minutes | Seconds |
|---------|---------|---------|---------|---------|---------|
| 030     | 14      | 36      | 093     | 16      | 20      |

3.7 Dun & Bradstreet Number(s) a. 00-842-7692 b. NA

3.8 EPA Identification Number(s) (RCRA I.D. No.) a. LAD990683716 b. NA

3.9 NPDES Permit Number(s) a. LA0003026 b. NA

3.10 Receiving Streams or Water Bodies (enter one name per box)

|                  |       |
|------------------|-------|
| a. Bayou Verdine | b. NA |
| c. NA            | d. NA |
| e. NA            | f. NA |

11 Underground Injection Well Code (UIC) Identification Number(s) a. NA b. NA

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. Du Pont De Nemours 4.2 Parent Company's Dun & Bradstreet Number 00-131-5704

## EPA Form R Part II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

1,3-Butadiene  
Conoco Lake Charles Ref

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

|                     |        |                     |        |
|---------------------|--------|---------------------|--------|
| 1.1 POTW name<br>NA |        | 1.2 POTW name<br>NA |        |
| Street Address      |        | Street Address      |        |
| City                | County | City                | County |
| State               | Zip    | State               | Zip    |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

|                                                                                      |                     |                                                                                      |                     |
|--------------------------------------------------------------------------------------|---------------------|--------------------------------------------------------------------------------------|---------------------|
| 2.1 Off-site location name<br>BFI                                                    |                     | 2.2 Off-site location name<br>CMMI                                                   |                     |
| EPA Identification Number (RCRA ID No.)<br>NA                                        |                     | EPA Identification Number (RCRA ID No.)<br>IAD000777201                              |                     |
| Street Address<br>Cities Service Hwy @ I-10                                          |                     | Street Address<br>Rt 2, John Brannon Rd                                              |                     |
| City<br>Sulfur                                                                       | County<br>Calcasieu | City<br>Carlyss                                                                      | County<br>Calcasieu |
| State<br>LA                                                                          | Zip<br>70664        | State<br>LA                                                                          | Zip<br>70663        |
| Is location under control of reporting facility or parent company?<br>[ ] Yes [X] No |                     | Is location under control of reporting facility or parent company?<br>[ ] Yes [X] No |                     |

|                                                                                      |        |                                                                                      |        |
|--------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|--------|
| 2.3 Off-site location name<br>NA                                                     |        | 2.4 Off-site location name<br>NA                                                     |        |
| EPA Identification Number (RCRA ID No.)                                              |        | EPA Identification Number (RCRA ID No.)                                              |        |
| Street Address                                                                       |        | Street Address                                                                       |        |
| City                                                                                 | County | City                                                                                 | County |
| State                                                                                | Zip    | State                                                                                | Zip    |
| Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |        | Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |        |

|                                                                                      |        |                                                                                      |        |
|--------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------|--------|
| 2.5 Off-site location name<br>NA                                                     |        | 2.6 Off-site location name<br>NA                                                     |        |
| EPA Identification Number (RCRA ID No.)                                              |        | EPA Identification Number (RCRA ID No.)                                              |        |
| Street Address                                                                       |        | Street Address                                                                       |        |
| City                                                                                 | County | City                                                                                 | County |
| State                                                                                | Zip    | State                                                                                | Zip    |
| Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |        | Is location under control of reporting facility or parent company?<br>[ ] Yes [ ] No |        |

[ ] Check if additional pages of Part II are attached. How many? [ ]

SAL 000003960

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION

1,3-Butadiene  
Conoco Lake Charles Refi

## 1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting chemical category.)  
000106-99-01.3 Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)  
1,3-Butadiene

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

## 2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

## 3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

|                                 |                                                          |                                                        |                                                                   |                                                       |
|---------------------------------|----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------|
| 3.1 Manufacture the chemical:   | a. <input checked="" type="checkbox"/> Produce           | If produce or import:                                  | c. <input checked="" type="checkbox"/> For on-site use/processing | d. <input type="checkbox"/> For sale/distribution     |
|                                 | b. <input type="checkbox"/> Import                       |                                                        | e. <input type="checkbox"/> As a byproduct                        | f. <input checked="" type="checkbox"/> As an impurity |
| 3.2 Process the chemical:       | a. <input checked="" type="checkbox"/> As a reactant     | b. <input type="checkbox"/> As a formulation component | c. <input type="checkbox"/> As an article component               |                                                       |
|                                 | d. <input type="checkbox"/> Repackaging only             |                                                        |                                                                   |                                                       |
| 3.3 Otherwise use the chemical: | a. <input type="checkbox"/> As a chemical processing aid | b. <input type="checkbox"/> As a manufacturing aid     | c. <input type="checkbox"/> Ancillary or other use                |                                                       |

## 4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[05] (enter code)

## 5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)

|                                                                                                                                     |                                     | A. Total Releases (lbs/yr)             |                                           |                                           |                    | B. Basis of Estimate (enter code)      |                                                    |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------|-------------------------------------------|-------------------------------------------|--------------------|----------------------------------------|----------------------------------------------------|
|                                                                                                                                     |                                     | A.1 Reporting Ranges                   |                                           |                                           | A.2 Enter Estimate |                                        |                                                    |
|                                                                                                                                     |                                     | 0                                      | 1-499                                     | 500-999                                   |                    |                                        |                                                    |
| 5.1 Fugitive or non-point air emissions                                                                                             | 5.1a                                | [ ]                                    | [ ]                                       | [ ]                                       | 1200               | 5.1b                                   | [ O ]                                              |
| 5.2 Stack or point air emissions                                                                                                    | 5.2a                                | [ ]                                    | [ ]                                       | [ ]                                       | NA                 | 5.2b                                   | [ ]                                                |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.1 [ ]<br>5.3.2 [ ]<br>5.3.3 [ ] | 5.3.1a [ ]<br>5.3.2a [ ]<br>5.3.3a [ ] | [ ] [ ] [ ]<br>[ ] [ ] [ ]<br>[ ] [ ] [ ] | [ ] [ ] [ ]<br>[ ] [ ] [ ]<br>[ ] [ ] [ ] | NA<br>NA<br>NA     | 5.3.1b [ ]<br>5.3.2b [ ]<br>5.3.3b [ ] | C. % From Stormwater<br>5.3.1c<br>5.3.2c<br>5.3.3c |
| 5.4 Underground Injection                                                                                                           | 5.4a                                | [ ]                                    | [ ]                                       | [ ]                                       | NA                 | 5.4b                                   | [ ]                                                |
| 5.5 Releases to land                                                                                                                |                                     |                                        |                                           |                                           |                    |                                        |                                                    |
| 5.5.1 On-site landfill                                                                                                              | 5.5.1a                              | [ ]                                    | [ ]                                       | [ ]                                       | NA                 | 5.5.1b                                 | [ ]                                                |
| 5.5.2 Land treatment/application farming                                                                                            | 5.5.2a                              | [ ]                                    | [ ]                                       | [ ]                                       | NA                 | 5.5.2b                                 | [ ]                                                |
| 5.5.3 Surface impoundment                                                                                                           | 5.5.3a                              | [ ]                                    | [ ]                                       | [ ]                                       | NA                 | 5.5.3b                                 | [ ]                                                |
| 5.5.4 Other disposal                                                                                                                | 5.5.4a                              | [ ]                                    | [ ]                                       | [ ]                                       | NA                 | 5.5.4b                                 | [ ]                                                |

(Check if additional information is provided on Part IV - Supplemental Information)

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

1,3-Butadiene  
Conoco Lake Charles Ref.

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) |        | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------|--------------------|--|-----------------------------------|---------------------------------------------|
|                                                                                                             |        | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                             |
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.)                                    | 1. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.1.1b [ ]                        |                                             |
| 6.2.1 Other Off-Site Location (enter location number from Part II, Section 2.)                              | 2. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.2.1b [ ]                        | 6.2.1c                                      |
| 6.2.2 Other Off-Site Location (enter location number from Part II, Section 2.)                              | 2. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.2.2b [ ]                        | 6.2.2c                                      |
| 6.2.3 Other Off-Site Location (enter location number from Part II, Section 2.)                              | 2. [ ] | [ ] [ ] [ ]                             | NA                 |  | 6.2.3b [ ]                        | 6.2.3c                                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes No |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|------------------------------------|
| 7.1a [ ]                            | 7.1b [ ]                         | 7.1c [ ]                                        | 7.1d [ ]                                       | 7.1e %                           | 7.1f [ ] [ ]                       |
| 7.2a [ ]                            | 7.2b [ ]                         | 7.2c [ ]                                        | 7.2d [ ]                                       | 7.2e %                           | 7.2f [ ] [ ]                       |
| 7.3a [ ]                            | 7.3b [ ]                         | 7.3c [ ]                                        | 7.3d [ ]                                       | 7.3e %                           | 7.3f [ ] [ ]                       |
| 7.4a [ ]                            | 7.4b [ ]                         | 7.4c [ ]                                        | 7.4d [ ]                                       | 7.4e %                           | 7.4f [ ] [ ]                       |
| 7.5a [ ]                            | 7.5b [ ]                         | 7.5c [ ]                                        | 7.5d [ ]                                       | 7.5e %                           | 7.5f [ ] [ ]                       |
| 7.6a [ ]                            | 7.6b [ ]                         | 7.6c [ ]                                        | 7.6d [ ]                                       | 7.6e %                           | 7.6f [ ] [ ]                       |
| 7.7a [ ]                            | 7.7b [ ]                         | 7.7c [ ]                                        | 7.7d [ ]                                       | 7.7e %                           | 7.7f [ ] [ ]                       |
| 7.8a [ ]                            | 7.8b [ ]                         | 7.8c [ ]                                        | 7.8d [ ]                                       | 7.8e %                           | 7.8f [ ] [ ]                       |
| 7.9a [ ]                            | 7.9b [ ]                         | 7.9c [ ]                                        | 7.9d [ ]                                       | 7.9e %                           | 7.9f [ ] [ ]                       |
| 7.10a [ ]                           | 7.10b [ ]                        | 7.10c [ ]                                       | 7.10d [ ]                                      | 7.10e %                          | 7.10f [ ] [ ]                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal |                     |                   | C. Index | D. Reason for Action (enter code) |
|--------------------------------------|----------------------------------------------------------------------|---------------------|-------------------|----------|-----------------------------------|
|                                      | Current reporting year (lbs/yr)                                      | Prior year (lbs/yr) | Or Percent Change |          |                                   |
| M [ ]                                |                                                                      |                     | [ ]+ [ ]- %       | [ ]      | R [ ]                             |

## EPA FORM R PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III.

Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

1,3-Butadiene  
Conoco Lake Charles RefiADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT  
(Part III, Section 5.3)

| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)                          | A. Total Releases (lbs/yr)              |                      |                      | B. Basis of Estimate (enter code) | C. % From Stormwater |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|----------------------|----------------------|-----------------------------------|----------------------|
|                                                                                                                                     | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate   |                      |                                   |                      |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.[ ] [ ] [ ]                         | 5.3.[ ]a [ ] [ ] [ ] | 5.3.[ ]b [ ] [ ] [ ] | 5.3.[ ]b [ ] [ ] [ ]              | 5.3.[ ]c [ ] [ ] [ ] |

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS  
(Part III, Section 6)

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr)             |                    |             | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|-------------|-----------------------------------|---------------------------------------------|
|                                                                                                             | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |             |                                   |                                             |
| 6.1 Discharge to POTW (Enter location number from Part II, Section 1.)                                      | 1.[ ] [ ] [ ]                           | [ ] [ ] [ ]        | [ ] [ ] [ ] | 6.1.[ ]b [ ] [ ] [ ]              |                                             |
| 6.2 Other off-site location (Enter location number from Part II, Section 2.)                                | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        | [ ] [ ] [ ] | 6.2.[ ]b [ ] [ ] [ ]              | 6.2.[ ]c [ ] [ ] [ ]                        |
| 6.2 Other off-site location (Enter location number from Part II, Section 2.)                                | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        | [ ] [ ] [ ] | 6.2.[ ]b [ ] [ ] [ ]              | 6.2.[ ]c [ ] [ ] [ ]                        |
| 6.2 Other off-site location (Enter location number from Part II, Section 2.)                                | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        | [ ] [ ] [ ] | 6.2.[ ]b [ ] [ ] [ ]              | 6.2.[ ]c [ ] [ ] [ ]                        |

## ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? |         |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|-----------------------------|---------|
|                                     |                                  |                                                 |                                                |                                  | Yes                         | No      |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |
| 7.[ ]a [ ] [ ]                      | 7.[ ]b [ ] [ ]                   | 7.[ ]c [ ] [ ]                                  | 7.[ ]d [ ] [ ]                                 | 7.[ ]e [ ] [ ]                   | % 7.[ ]f [ ] [ ]            | [ ] [ ] |

EPA U.S. Environmental Protection Agency  
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM  
Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,  
also known as Title III of the Superfund Amendments and Reauthorization Act.

Page 1 of 5

Chlorine  
Conoco Lake Charles Ref

EPA FORM R PART I. FACILITY IDENTIFICATION SECTION

1.1 Are you claiming the chemical identity on page 3 trade secret? ☐ Yes (Answer question 1.2; Attach substantiation forms.) ☒ No (Do not answer 1.2; Go to question 1.3.) 1.2 If "Yes" in 1.1, is this copy: ☐ Sanitized ☐ Unsanitized 1.3 Reporting Year 1989

2. CERTIFICATION (Read and sign after completing all sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official  
Don R. Unruh Refinery Manager

Signature Date signed  
06-20-90

3. Facility Identification

Facility or Establishment Name  
Conoco Lake Charles Refinery  
Street Address  
Old Spanish Trail  
City  
Westlake County  
Calcasieu  
State  
LA Zip Code  
70669  
TRI Facility Identification Number  
70669 CNCLK OLDSF

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER  
P.O. BOX 23799  
WASHINGTON, DC 20026-3779  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check one): a. ☒ An entire facility b. ☐ Part of a facility.

3.3 Technical Contact Brandt Butler Telephone Number (318) 491-5599

3.4 Public Contact Don R. Unruh Telephone Number (318) 491-5222

3.5 SIC Code (4 digit) a. 2911 b. NA c. NA d. NA e. NA f. NA

3.6 Latitude Longitude  
Degrees Minutes Seconds Degrees Minutes Seconds  
030 14 36 093 16 20

3.7 Dun & Bradstreet Number(s) a. 00-842-7692 b. NA

3.8 EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716 b. NA

3.9 NPDES Permit Number(s) a. LA0003026 b. NA

3.10 Receiving Streams or Water Bodies (enter one name per box) a. Bayou Verdine b. NA  
c. NA d. NA  
e. NA f. NA

1) Underground Injection Well Code (UIC) Identification Number(s) a. NA b. NA

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company E. I. Du Pont De Nemours 4.2 Parent Company's Dun & Bradstreet Number 00-131-5704

## EPA Form R Part II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

Chlorine  
Conoco Lake Charles Refi

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

|                     |        |                     |        |
|---------------------|--------|---------------------|--------|
| 1.1 POTW name<br>NA |        | 1.2 POTW name<br>NA |        |
| Street Address      |        | Street Address      |        |
| City                | County | City                | County |
| State               | Zip    | State               | Zip    |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

|                                                                                                                                           |                     |                                                                                                                                           |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 2.1 Off-site location name<br>BFI                                                                                                         |                     | 2.2 Off-site location name<br>CWM                                                                                                         |                     |
| EPA Identification Number (RCRA ID No.)<br>NA                                                                                             |                     | EPA Identification Number (RCRA ID No.)<br>LAD000777201                                                                                   |                     |
| Street Address<br>Cities Service Hwy @ I-10                                                                                               |                     | Street Address<br>Rt 2, John Brannon Rd                                                                                                   |                     |
| City<br>Sulfur                                                                                                                            | County<br>Calcasieu | City<br>Carlyss                                                                                                                           | County<br>Calcasieu |
| State<br>LA                                                                                                                               | Zip<br>70664        | State<br>LA                                                                                                                               | Zip<br>70663        |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     |
| 2.3 Off-site location name<br>NA                                                                                                          |                     | 2.4 Off-site location name<br>NA                                                                                                          |                     |
| EPA Identification Number (RCRA ID No.)                                                                                                   |                     | EPA Identification Number (RCRA ID No.)                                                                                                   |                     |
| Street Address                                                                                                                            |                     | Street Address                                                                                                                            |                     |
| City                                                                                                                                      | County              | City                                                                                                                                      | County              |
| State                                                                                                                                     | Zip                 | State                                                                                                                                     | Zip                 |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     |
| 2.5 Off-site location name<br>NA                                                                                                          |                     | 2.6 Off-site location name<br>NA                                                                                                          |                     |
| EPA Identification Number (RCRA ID No.)                                                                                                   |                     | EPA Identification Number (RCRA ID No.)                                                                                                   |                     |
| Street Address                                                                                                                            |                     | Street Address                                                                                                                            |                     |
| City                                                                                                                                      | County              | City                                                                                                                                      | County              |
| State                                                                                                                                     | Zip                 | State                                                                                                                                     | Zip                 |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No            |                     |

[ ] Check if additional pages of Part II are attached. How many? [ ]

SAL 000003965

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION

Chlorine  
Conoco Lake Charles Ref.

## 1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting chemical category.)  
007782-50-51.3 Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)  
Chlorine

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

## 2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

## 3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

- 3.1 Manufacture the chemical: a. ☐ Produce If produce or import: c. ☐ For on-site use/processing d. ☐ For sale/distribution  
b. ☐ Import e. ☐ As a byproduct f. ☐ As an impurity
- 3.2 Process the chemical: a. ☐ As a reactant b. ☐ As a formulation component c. ☐ As an article component  
d. ☐ Repackaging only
- 3.3 Otherwise use the chemical: a. ☐ As a chemical processing aid b. ☐ As a manufacturing aid c. ☒ Ancillary or other use

## 4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[04] (enter code)

## 5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

|                                                                                                                                     |                                     | A. Total Releases (lbs/yr)              |                                           |                | B. Basis of Estimate (enter code)      | C. % From Stormwater       |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------|-------------------------------------------|----------------|----------------------------------------|----------------------------|
|                                                                                                                                     |                                     | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate                        |                |                                        |                            |
| 5.1 Fugitive or non-point air emissions                                                                                             | 5.1a                                | [ ] [ ] [ ]                             | 2000                                      |                | 5.1b [ O ]                             |                            |
| 5.2 Stack or point air emissions                                                                                                    | 5.2a                                | [ ] [ ] [ ]                             | NA                                        |                | 5.2b [ ]                               |                            |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.1 [ ]<br>5.3.2 [ ]<br>5.3.3 [ ] | 5.3.1a [ ]<br>5.3.2a [ ]<br>5.3.3a [ ]  | [ ] [ ] [ ]<br>[ ] [ ] [ ]<br>[ ] [ ] [ ] | NA<br>NA<br>NA | 5.3.1b [ ]<br>5.3.2b [ ]<br>5.3.3b [ ] | 5.3.1c<br>5.3.2c<br>5.3.3c |
| 5.4 Underground Injection                                                                                                           | 5.4a                                | [ ] [ ] [ ]                             | NA                                        |                | 5.4b [ ]                               |                            |
| 5.5 Releases to land                                                                                                                |                                     |                                         |                                           |                |                                        |                            |
| 5.5.1 On-site landfill                                                                                                              | 5.5.1a                              | [ ] [ ] [ ]                             | NA                                        |                | 5.5.1b [ ]                             |                            |
| 5.5.2 Land treatment/application farming                                                                                            | 5.5.2a                              | [ ] [ ] [ ]                             | NA                                        |                | 5.5.2b [ ]                             |                            |
| 5.5.3 Surface impoundment                                                                                                           | 5.5.3a                              | [ ] [ ] [ ]                             | NA                                        |                | 5.5.3b [ ]                             |                            |
| 5.5.4 Other disposal                                                                                                                | 5.5.4a                              | [ ] [ ] [ ]                             | NA                                        |                | 5.5.4b [ ]                             |                            |

J (Check if additional information is provided on Part IV - Supplemental Information)

SAL 000003966

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

Chlorine  
Conoco Lake Charles Refi

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) |        | A. Total Transfers (lbs/yr)             |     |     | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|--------|-----------------------------------------|-----|-----|-----------------------------------|---------------------------------------------|
|                                                                                                             |        | A.1 Reporting Ranges<br>0 1-499 500-999 |     |     |                                   |                                             |
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.)                                    | 1. [ ] | [ ]                                     | [ ] | [ ] | NA                                | 6.1.1b [ ]                                  |
| 6.2.1 Other Off-Site Location (enter location number from Part II, Section 2.)                              | 2. [ ] | [ ]                                     | [ ] | [ ] | NA                                | 6.2.1b [ ] 6.2.1c                           |
| 6.2.2 Other Off-Site Location (enter location number from Part II, Section 2.)                              | 2. [ ] | [ ]                                     | [ ] | [ ] | NA                                | 6.2.2b [ ] 6.2.2c                           |
| 6.2.3 Other Off-Site Location (enter location number from Part II, Section 2.)                              | 2. [ ] | [ ]                                     | [ ] | [ ] | NA                                | 6.2.3b [ ] 6.2.3c                           |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

[X] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? |     |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|-----------------------------|-----|
|                                     |                                  |                                                 |                                                |                                  | Yes                         | No  |
| 7.1a [ ]                            | 7.1b [ ]                         | 7.1c [ ]                                        | 7.1d [ ]                                       | 7.1e %                           | 7.1f [ ]                    | [ ] |
| 7.2a [ ]                            | 7.2b [ ]                         | 7.2c [ ]                                        | 7.2d [ ]                                       | 7.2e %                           | 7.2f [ ]                    | [ ] |
| 7.3a [ ]                            | 7.3b [ ]                         | 7.3c [ ]                                        | 7.3d [ ]                                       | 7.3e %                           | 7.3f [ ]                    | [ ] |
| 7.4a [ ]                            | 7.4b [ ]                         | 7.4c [ ]                                        | 7.4d [ ]                                       | 7.4e %                           | 7.4f [ ]                    | [ ] |
| 7.5a [ ]                            | 7.5b [ ]                         | 7.5c [ ]                                        | 7.5d [ ]                                       | 7.5e %                           | 7.5f [ ]                    | [ ] |
| 7.6a [ ]                            | 7.6b [ ]                         | 7.6c [ ]                                        | 7.6d [ ]                                       | 7.6e %                           | 7.6f [ ]                    | [ ] |
| 7.7a [ ]                            | 7.7b [ ]                         | 7.7c [ ]                                        | 7.7d [ ]                                       | 7.7e %                           | 7.7f [ ]                    | [ ] |
| 7.8a [ ]                            | 7.8b [ ]                         | 7.8c [ ]                                        | 7.8d [ ]                                       | 7.8e %                           | 7.8f [ ]                    | [ ] |
| 7.9a [ ]                            | 7.9b [ ]                         | 7.9c [ ]                                        | 7.9d [ ]                                       | 7.9e %                           | 7.9f [ ]                    | [ ] |
| 7.10a [ ]                           | 7.10b [ ]                        | 7.10 [ ]                                        | 7.10d [ ]                                      | 7.10e %                          | 7.10f [ ]                   | [ ] |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal |                     |                   | C. Index | D. Reason for Action (enter code) |
|--------------------------------------|----------------------------------------------------------------------|---------------------|-------------------|----------|-----------------------------------|
|                                      | Current reporting year (lbs/yr)                                      | Prior year (lbs/yr) | Or Percent Change |          |                                   |
| M [ ]                                |                                                                      |                     | [ ]+<br>[ ]-      | % [ ]    | R [ ]                             |

## EPA FORM R PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III.  
Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

Chlorine  
Conoco Lake Charles Ref

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT  
(Part III, Section 5.3)

| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)                          | A. Total Releases (lbs/yr)              |                    |  | B. Basis of Estimate (enter code)       |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|-----------------------------------------|
|                                                                                                                                     | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                         |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.[ ] [ ] [ ]                         | 5.3.[ ] [ ] [ ]    |  | 5.3.[ ] [ ] [ ]                         |
|                                                                                                                                     | 5.3.[ ] [ ] [ ]                         | 5.3.[ ] [ ] [ ]    |  | 5.3.[ ] [ ] [ ]                         |
|                                                                                                                                     | 5.3.[ ] [ ] [ ]                         | 5.3.[ ] [ ] [ ]    |  | 5.3.[ ] [ ] [ ]                         |
|                                                                                                                                     |                                         |                    |  | C. % From Stormwater<br>5.3.[ ] [ ] [ ] |
|                                                                                                                                     |                                         |                    |  | 5.3.[ ] [ ] [ ]                         |
|                                                                                                                                     |                                         |                    |  | 5.3.[ ] [ ] [ ]                         |

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS  
(Part III, Section 6)

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|-----------------------------------|---------------------------------------------|
|                                                                                                             | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                             |
| Discharge to POTW (Enter location number from Part II, Section 1.)                                          | 1.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.1.[ ] [ ] [ ]                   |                                             |
| Other off-site location 6.2.[ ] (Enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.2.[ ] [ ] [ ]                   | 6.2.[ ] [ ] [ ]                             |
| Other off-site location 6.2.[ ] (Enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.2.[ ] [ ] [ ]                   | 6.2.[ ] [ ] [ ]                             |
| Other off-site location 6.2.[ ] (Enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.2.[ ] [ ] [ ]                   | 6.2.[ ] [ ] [ ]                             |

ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? |                   |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|-----------------------------|-------------------|
|                                     |                                  |                                                 |                                                |                                  | Yes                         | No                |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |
| 7.[ ] [ ] [ ]                       | 7.[ ] [ ] [ ]                    | 7.[ ] [ ] [ ]                                   | 7.[ ] [ ] [ ]                                  | 7.[ ] [ ] [ ]                    | %                           | 7.[ ] [ ] [ ] [ ] |

EPA U.S. Environmental Protection Agency  
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM  
Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,  
also known as Title III of the Superfund Amendments and Reauthorization Act.

Page 1 of 5

Cumene  
Conoco Lake Charles Refi

EPA FORM R PART I. FACILITY IDENTIFICATION SECTION

1.1 Are you claiming the chemical identity on page 3 trade secret?  
[ ] Yes (Answer question 1.2; Attach substantiation forms.) [X] No (Do not answer 1.2; Go to question 1.3.)  
1.2 If "Yes" in 1.1, is this copy: [ ] Sanitized [ ] Unsanitized  
1.3 Reporting Year 1989

2. CERTIFICATION (Read and sign after completing all sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official  
Don R. Unruh Refinery Manager

Signature Date signed  
06-20-90

3. Facility Identification

3.1 Facility or Establishment Name  
Conoco Lake Charles Refinery  
Street Address  
Old Spanish Trail  
City Westlake County Calcasieu  
State LA Zip Code 70669  
TRI Facility Identification Number  
70669 CNCLK OLDSP

WHERE TO SEND COMPLETED FORMS:

1. EPCRA REPORTING CENTER  
P.O. BOX 23799  
WASHINGTON, DC 20026-3779  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY
2. APPROPRIATE STATE OFFICE (See instructions in Appendix G)

3.2 This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact  
Brandt Butler Telephone Number  
(318) 491-5599

3.4 Public Contact  
Don R. Unruh Telephone Number  
(318) 491-5222

3.5 SIC Code (4 digit)  
a. 2911 b. NA c. NA d. NA e. NA f. NA

3.6 Latitude Longitude  
Degrees Minutes Seconds Degrees Minutes Seconds  
030 14 36 093 16 20

3.7 Dun & Bradstreet Number(s)  
a. 00-842-7692 b. NA

3.8 EPA Identification Number(s) (RCRA I.D. No.)  
a. LAD990683716 b. NA

3.9 NPDES Permit Number(s)  
a. LA0003026 b. NA

3.10 Receiving Streams or Water Bodies (enter one name per box)  
a. Bayou Verdine b. NA  
c. NA d. NA  
e. NA f. NA

Underground Injection Well Code (UIC) Identification Number(s)  
a. NA b. NA

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company  
E. I. Du Pont De Nemours  
4.2 Parent Company's Dun & Bradstreet Number  
00-131-5704

## FPA Form R Part II. OFF-SITE LOCATIONS TO WHICH TOXIC CHEMICALS ARE TRANSFERRED IN WASTES

Cumene  
Conoco Lake Charles Ref.

## 1. PUBLICLY OWNED TREATMENT WORKS (POTWs)

|                     |        |                     |        |
|---------------------|--------|---------------------|--------|
| 1.1 POTW name<br>NA |        | 1.2 POTW name<br>NA |        |
| Street Address      |        | Street Address      |        |
| City                | County | City                | County |
| State               | Zip    | State               | Zip    |

## 2. OTHER OFF-SITE LOCATIONS (DO NOT REPORT LOCATIONS TO WHICH WASTES ARE SENT ONLY FOR RECYCLING OR REUSE).

|                                                                                                                                           |                     |                                                                                                                                           |                     |
|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| 2.1 Off-site location name<br>BFI                                                                                                         |                     | 2.2 Off-site location name<br>CMI                                                                                                         |                     |
| EPA Identification Number (RCRA ID No.)<br>NA                                                                                             |                     | EPA Identification Number (RCRA ID No.)<br>LAD000777201                                                                                   |                     |
| Street Address<br>Cities Service Hwy @ I-10                                                                                               |                     | Street Address<br>Rt 2, John Brannon Rd                                                                                                   |                     |
| City<br>Sulfur                                                                                                                            | County<br>Calcasieu | City<br>Carlyss                                                                                                                           | County<br>Calcasieu |
| State<br>LA                                                                                                                               | Zip<br>70664        | State<br>LA                                                                                                                               | Zip<br>70663        |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No |                     |

|                                                                                                                                |        |                                                                                                                                |        |
|--------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------|--------|
| 2.3 Off-site location name<br>NA                                                                                               |        | 2.4 Off-site location name<br>NA                                                                                               |        |
| EPA Identification Number (RCRA ID No.)                                                                                        |        | EPA Identification Number (RCRA ID No.)                                                                                        |        |
| Street Address                                                                                                                 |        | Street Address                                                                                                                 |        |
| City                                                                                                                           | County | City                                                                                                                           | County |
| State                                                                                                                          | Zip    | State                                                                                                                          | Zip    |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No |        | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No |        |

|                                                                                                                                |        |                                                                                                                                |        |
|--------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------|--------|
| 2.5 Off-site location name<br>NA                                                                                               |        | 2.6 Off-site location name<br>NA                                                                                               |        |
| EPA Identification Number (RCRA ID No.)                                                                                        |        | EPA Identification Number (RCRA ID No.)                                                                                        |        |
| Street Address                                                                                                                 |        | Street Address                                                                                                                 |        |
| City                                                                                                                           | County | City                                                                                                                           | County |
| State                                                                                                                          | Zip    | State                                                                                                                          | Zip    |
| Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No |        | Is location under control of reporting facility or parent company?<br><input type="checkbox"/> Yes <input type="checkbox"/> No |        |

☐ Check if additional pages of Part II are attached. How many? ☐

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION

Cumene  
Conoco Lake Charles Refi

## 1. CHEMICAL IDENTITY (Do not complete this section if you complete Section 2.)

1.1 [Reserved]

1.2 CAS Number (Enter the number exactly as it appears on the 313 list. Enter NA if reporting chemical category.)  
000098-82-81.3 Chemical or Chemical Category Name (Enter the name exactly as it appears on the 313 list.)  
Cumene

1.4 Generic Chemical Name (Complete only if Part I, Section 1.1 is checked "Yes." Generic name must be structurally descriptive.)

## 2. MIXTURE COMPONENT IDENTITY (Do not complete this section if you complete Section 1.)

Generic Chemical Name Provided by Supplier (Limit the name to a maximum of 70 characters (e.g., numbers, letters, spaces, punctuation).)

## 3. ACTIVITIES AND USES OF THE CHEMICAL AT THE FACILITY (Check all that apply.)

|                                 |                                                          |                                                        |                                                                   |                                                       |
|---------------------------------|----------------------------------------------------------|--------------------------------------------------------|-------------------------------------------------------------------|-------------------------------------------------------|
| 3.1 Manufacture the chemical:   | a. <input checked="" type="checkbox"/> Produce           | If produce or import:                                  | c. <input checked="" type="checkbox"/> For on-site use/processing | d. <input type="checkbox"/> For sale/distribution     |
|                                 | b. <input type="checkbox"/> Import                       |                                                        | e. <input type="checkbox"/> As a byproduct                        | f. <input checked="" type="checkbox"/> As an impurity |
| 3.2 Process the chemical:       | a. <input checked="" type="checkbox"/> As a reactant     | b. <input type="checkbox"/> As a formulation component | c. <input type="checkbox"/> As an article component               |                                                       |
|                                 | d. <input type="checkbox"/> Repackaging only             |                                                        |                                                                   |                                                       |
| 3.3 Otherwise use the chemical: | a. <input type="checkbox"/> As a chemical processing aid | b. <input type="checkbox"/> As a manufacturing aid     | c. <input type="checkbox"/> Ancillary or other use                |                                                       |

## 4. MAXIMUM AMOUNT OF THE CHEMICAL ON-SITE AT ANY TIME DURING THE CALENDAR YEAR

[07] (enter code)

## 5. RELEASES OF THE CHEMICAL TO THE ENVIRONMENT ON-SITE

|                                                                                                                                     |             | A. Total Releases (lbs/yr)              |     |     | B. Basis of Estimate (enter code) | C. % From Stormwater |                    |           |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------------------------|-----|-----|-----------------------------------|----------------------|--------------------|-----------|
|                                                                                                                                     |             | A.1 Reporting Ranges<br>0 1-499 500-999 |     |     |                                   |                      | A.2 Enter Estimate |           |
| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)                          |             |                                         |     |     |                                   |                      |                    |           |
| 5.1 Fugitive or non-point air emissions                                                                                             | 5.1a        | [ ]                                     | [ ] | [ ] | 12000                             | 5.1b [ O ]           |                    |           |
| 5.2 Stack or point air emissions                                                                                                    | 5.2a        | [ ]                                     | [ ] | [ ] | 660                               | 5.2b [ O ]           |                    |           |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.1 [ a ] | 5.3.1a                                  | [ ] | [ ] | [ ]                               | 17                   | 5.3.1b [ O ]       | 5.3.1c NA |
|                                                                                                                                     | 5.3.2 [ ]   | 5.3.2a                                  | [ ] | [ ] | [ ]                               | NA                   | 5.3.2b [ ]         | 5.3.2c    |
|                                                                                                                                     | 5.3.3 [ ]   | 5.3.3a                                  | [ ] | [ ] | [ ]                               | NA                   | 5.3.3b [ ]         | 5.3.3c    |
| 5.4 Underground Injection                                                                                                           | 5.4a        | [ ]                                     | [ ] | [ ] | NA                                | 5.4b [ ]             |                    |           |
| 5.5 Releases to land                                                                                                                |             |                                         |     |     |                                   |                      |                    |           |
| 5.5.1 On-site landfill                                                                                                              | 5.5.1a      | [ ]                                     | [ ] | [ ] | NA                                | 5.5.1b [ ]           |                    |           |
| 5.5.2 Land treatment/application farming                                                                                            | 5.5.2a      | [ ]                                     | [ ] | [ ] | NA                                | 5.5.2b [ ]           |                    |           |
| 5.5.3 Surface impoundment                                                                                                           | 5.5.3a      | [ ]                                     | [ ] | [ ] | NA                                | 5.5.3b [ ]           |                    |           |
| 5.5.4 Other disposal                                                                                                                | 5.5.4a      | [ ]                                     | [ ] | [ ] | NA                                | 5.5.4b [ ]           |                    |           |

(Check if additional information is provided on Part IV - Supplemental Information)

## EPA FORM R PART III. CHEMICAL-SPECIFIC INFORMATION (continued)

Cumene  
Conoco Lake Charles Refi

## 6. TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/ Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|-----------------------------------|---------------------------------------------|
|                                                                                                             | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                             |
| 6.1.1 Discharge to POTW (enter location number from Part II, Section 1.) 1. [ ]                             | [ ] [ ] [ ]                             | NA                 |  | 6.1.1b [ ]                        |                                             |
| 6.2.1 Other Off-Site Location (enter location number from Part II, Section 2.) 2. [2 ]                      | [ ] [ ] [ ]                             | 50                 |  | 6.2.1b [ O ]                      | 6.2.1c M72                                  |
| 6.2.2 Other Off-Site Location (enter location number from Part II, Section 2.) 2. [1 ]                      | [ ] [ ] [ ]                             | 62                 |  | 6.2.2b [ O ]                      | 6.2.2c M72                                  |
| 6.2.3 Other Off-Site Location (enter location number from Part II, Section 2.) 2. [ ]                       | [ ] [ ] [ ]                             | NA                 |  | 6.2.3b [ ]                        | 6.2.3c                                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 7. WASTE TREATMENT METHODS AND EFFICIENCY

[ ] Not Applicable (NA) - Check if no on-site treatment is applied to any wastestream containing the chemical or chemical category.

| A. Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? Yes No |
|-----------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|------------------------------------|
| 7.1a [W ]                   | 7.1b [ B11 ]                     | 7.1c [4 ]                                       | 7.1d [ ]                                       | 7.1e 95.00 %                     | 7.1f [ ] [X]                       |
| 7.2a [A ]                   | 7.2b [ A07 ]                     | 7.2c [2 ]                                       | 7.2d [ ]                                       | 7.2e 88.00 %                     | 7.2f [X] [ ]                       |
| 7.3a [ ]                    | 7.3b [ NA ]                      | 7.3c [ ]                                        | 7.3d [ ]                                       | 7.3e %                           | 7.3f [ ] [ ]                       |
| 7.4a [ ]                    | 7.4b [ NA ]                      | 7.4c [ ]                                        | 7.4d [ ]                                       | 7.4e %                           | 7.4f [ ] [ ]                       |
| 7.5a [ ]                    | 7.5b [ NA ]                      | 7.5c [ ]                                        | 7.5d [ ]                                       | 7.5e %                           | 7.5f [ ] [ ]                       |
| 7.6a [ ]                    | 7.6b [ NA ]                      | 7.6c [ ]                                        | 7.6d [ ]                                       | 7.6e %                           | 7.6f [ ] [ ]                       |
| 7.7a [ ]                    | 7.7b [ NA ]                      | 7.7c [ ]                                        | 7.7d [ ]                                       | 7.7e %                           | 7.7f [ ] [ ]                       |
| 7.8a [ ]                    | 7.8b [ NA ]                      | 7.8c [ ]                                        | 7.8d [ ]                                       | 7.8e %                           | 7.8f [ ] [ ]                       |
| 7.9a [ ]                    | 7.9b [ NA ]                      | 7.9c [ ]                                        | 7.9d [ ]                                       | 7.9e %                           | 7.9f [ ] [ ]                       |
| 7.10a [ ]                   | 7.10b [ NA ]                     | 7.10 [ ]                                        | 7.10d [ ]                                      | 7.10e %                          | 7.10f [ ] [ ]                      |

[ ] (Check if additional information is provided on Part IV - Supplemental Information)

## 8. POLLUTION PREVENTION: OPTIONAL INFORMATION ON WASTE MINIMIZATION

(Indicate actions taken to reduce the amount of the chemical being released from the facility. See the instructions for coded items and an explanation of what information to include.)

| A. Type of Modification (enter code) | B. Quantity of the Chemical in Wastes Prior to Treatment or Disposal |                     |                   | C. Index | D. Reason for Action (enter code) |
|--------------------------------------|----------------------------------------------------------------------|---------------------|-------------------|----------|-----------------------------------|
|                                      | Current reporting year (lbs/yr)                                      | Prior year (lbs/yr) | Or Percent Change |          |                                   |
| M [ ]                                |                                                                      |                     | [ ]+ [ ]-         | % [ ]    | R [ ]                             |

## EPA FORM R PART IV. SUPPLEMENTAL INFORMATION

Use this section if you need additional space for answers to questions in Part III.

Number the lines used sequentially from lines in prior sections (e.g., 5.3.4, 6.1.2, 7.11)

Cumene

Conoco Lake Charles Refi

ADDITIONAL INFORMATION ON RELEASES OF THE CHEMICAL TO THE ENVIRONMENT  
(Part III, Section 5.3)

| You may report releases of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2)                          | A. Total Releases (lbs/yr)              |                        |  | B. Basis of Estimate (enter code) |                                                |
|-------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------|--|-----------------------------------|------------------------------------------------|
|                                                                                                                                     | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate     |  |                                   |                                                |
| 5.3 Discharges to receiving streams or water bodies (Enter letter code from Part I Section 3.10 for stream(s) in the box provided.) | 5.3.[ ] [ ] [ ]                         | 5.3.[ ] 1a [ ] [ ] [ ] |  | 5.3.[ ] 1b [ ] [ ]                | C. % From Stormwater<br>5.3.[ ] 1c [ ] [ ] [ ] |

ADDITIONAL INFORMATION ON TRANSFERS OF THE CHEMICAL IN WASTE TO OFF-SITE LOCATIONS  
(Part III, Section 6)

| You may report transfers of less than 1,000 lbs by checking ranges under A.1. (Do not use both A.1 and A.2) | A. Total Transfers (lbs/yr)             |                    |  | B. Basis of Estimate (enter code) | C. Type of Treatment/Disposal (enter code) |
|-------------------------------------------------------------------------------------------------------------|-----------------------------------------|--------------------|--|-----------------------------------|--------------------------------------------|
|                                                                                                             | A.1 Reporting Ranges<br>0 1-499 500-999 | A.2 Enter Estimate |  |                                   |                                            |
| Discharge to POTW [ ] (enter location number from Part II, Section 1.)                                      | 1.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.1.[ ] 1b [ ] [ ]                |                                            |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.2.[ ] 1b [ ] [ ]                | 6.2.[ ] 1c [ ] [ ] [ ]                     |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.2.[ ] 1b [ ] [ ]                | 6.2.[ ] 1c [ ] [ ] [ ]                     |
| 6.2.[ ] Other off-site location (enter location number from Part II, Section 2.)                            | 2.[ ] [ ] [ ]                           | [ ] [ ] [ ]        |  | 6.2.[ ] 1b [ ] [ ]                | 6.2.[ ] 1c [ ] [ ] [ ]                     |

## ADDITIONAL INFORMATION ON WASTE TREATMENT METHODS AND EFFICIENCY (Part III, Section 7)

| A. General Wastestream (enter code) | B. Treatment Method (enter code) | C. Range of Influent Concentration (enter code) | D. Sequential Treatment? (Check if applicable) | E. Treatment Efficiency Estimate | F. Based on Operating Data? |         |
|-------------------------------------|----------------------------------|-------------------------------------------------|------------------------------------------------|----------------------------------|-----------------------------|---------|
|                                     |                                  |                                                 |                                                |                                  | Yes                         | No      |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |
| 7.[ ] 1a [ ] [ ]                    | 7.[ ] 1b [ ] [ ]                 | 7.[ ] 1c [ ] [ ]                                | 7.[ ] 1d [ ] [ ]                               | 7.[ ] 1e [ ] [ ]                 | % 7.[ ] 1f [ ] [ ]          | [ ] [ ] |

EPA U.S. Environmental Protection Agency  
TOXIC CHEMICAL RELEASE INVENTORY REPORTING FORM  
Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986,  
also known as Title III of the Superfund Amendments and Reauthorization Act.

Page 1 of 5

Cyclohexane  
Conoco Lake Charles Ref

EPA FORM R PART 1. FACILITY IDENTIFICATION SECTION

1.1 Are you claiming the chemical identity on page 3 trade secret? 1.2 If "Yes" in 1.1, is this copy: 1.3 Reporting Year  
[ ] Yes (Answer question 1.2; [X] No (Do not answer 1.2; [ ] Sanitized [ ] Unsanitized 1989  
Attach substantiation forms.) Go to question 1.3.)

2. CERTIFICATION (Read and sign after completing all sections.) I hereby certify that I have reviewed the attached documents and that, to the best of my knowledge and belief, the submitted information is true and complete and that the amounts and values in this report are accurate based on reasonable estimates using data available to the preparers of this report.

Name and official title of owner/operator or senior management official  
Don R. Unruh Refinery Manager

Signature Date signed  
06-20-90

3. Facility Identification

WHERE TO SEND COMPLETED FORMS:

Facility or Establishment Name  
Conoco Lake Charles Refinery

1. EPCRA REPORTING CENTER  
P.O. BOX 23799  
WASHINGTON, DC 20026-3779  
ATTN: TOXIC CHEMICAL RELEASE INVENTORY

Street Address  
Old Spanish Trail

3.1 City County  
Westlake Calcasieu

2. APPROPRIATE STATE OFFICE (See instructions  
in Appendix G)

State Zip Code  
LA 70669

TRI Facility Identification Number  
70669 CNCLK OLDSP

3.2 This report contains information for (Check one): a. [X] An entire facility b. [ ] Part of a facility.

3.3 Technical Contact Telephone Number  
Brandt Butler (318) 491-5599

3.4 Public Contact Telephone Number  
Don R. Unruh (318) 491-5222

3.5 SIC Code (4 digit) a. 2911 b. NA c. NA d. NA e. NA f. NA

3.6 Latitude Longitude  
Degrees Minutes Seconds Degrees Minutes Seconds  
030 14 36 093 16 20

3.7 Dun & Bradstreet Number(s) a. 00-842-7692 b. NA

3.8 EPA Identification Number(s) (RCRA I.D. No.) a. IAD990683716 b. NA

3.9 NPDES Permit Number(s) a. LA0003026 b. NA

3.10 Receiving Streams or Water Bodies-(enter one name per box) a. Bayou Verdine b. NA

c. NA d. NA

e. NA f. NA

11 Underground Injection Well Code (UIC) Identification Number(s) a. NA b. NA

4. PARENT COMPANY INFORMATION

4.1 Name of Parent Company 4.2 Parent Company's Dun & Bradstreet Number  
E. I. Du Pont De Nemours 00-131-5704

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

PHOSPHORIC ACID

| AREA/<br>SECT<br>CODE |                                 | TASK<br>CODE | ROLES                             | MANUFACTURER |
|-----------------------|---------------------------------|--------------|-----------------------------------|--------------|
| GS422                 | MONOSODIUM PHOSPHATE LIQUID 34% |              |                                   | .0 999.9     |
| 30                    | GASOLINE POLYMERIZATION UNIT    | D            | ENVIRONMENTAL & CHEMICAL SERVICES |              |
| 60                    | CRUDE PROCESS, VIRGIN LT ENDS   | D            | ENVIRONMENTAL & CHEMICAL SERVICES |              |
| 99                    | REC/STOR/MOVE, WAREHOUSE        | I            | ENVIRONMENTAL & CHEMICAL SERVICES |              |

SAL 000003975

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

PHOSPHORIC ACID

| AREA/<br>SECT<br>CODE |                                | TASK ROLES<br>CODE | MANUFACTURER       |      |
|-----------------------|--------------------------------|--------------------|--------------------|------|
| GS482                 | MALCO A-2-LITE 7356            |                    | 5.0                | 10.0 |
| 60                    | UTILITY, PUMP HOUSE (COOLING T | D                  | MALCO CHEMICAL CO. |      |

SAL 000003976

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

PHOSPHORIC ACID, 75Z

| AREA/<br>SECT<br>CODE |                              | TASK<br>CODE | ROLES                         | MANUFACTURER |
|-----------------------|------------------------------|--------------|-------------------------------|--------------|
| GS041                 | TANK CAR CLEANER NO. 8       |              |                               | 12.0 12.0    |
| 50                    | COKING UNIT                  | D            | AZTRON CHEMICAL SERVICES INC. |              |
| 60                    | PLANT-WIDE/FIELD, OPERATIONS | D            | AZTRON CHEMICAL SERVICES INC. |              |

SAL 000003977

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

PSEUDOCUMENE

| AREA/<br>SECT<br>CODE |                                | TASK<br>CODE | ROLES | MANUFACTURER |     |     |
|-----------------------|--------------------------------|--------------|-------|--------------|-----|-----|
| CP020                 | LEADED REGULAR GASOLINE        |              |       |              | 2.0 | 2.0 |
| 10                    | NO PROCESS CODE                |              | A     | CONOCO INC.  |     |     |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT |              | A     | CONOCO INC.  |     |     |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT |              | A     | CONOCO INC.  |     |     |
| 80                    | DOCK OPERATIONS UNIT           |              | A     | CONOCO INC.  |     |     |
| CP021                 | SUPER UNLEADED GASOLINE        |              |       |              | 2.0 | 2.0 |
| 10                    | NO PROCESS CODE                |              | A     | CONOCO INC.  |     |     |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT |              | A     | CONOCO INC.  |     |     |
| 80                    | DOCK OPERATIONS UNIT           |              | A     | CONOCO INC.  |     |     |
| CP022                 | UNLEADED GASOLINE              |              |       |              | 2.0 | 2.0 |
| 10                    | NO PROCESS CODE                |              | A     | CONOCO INC.  |     |     |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT |              | A     | CONOCO INC.  |     |     |
| 80                    | DOCK OPERATIONS UNIT           |              | A     | CONOCO INC.  |     |     |

SAL 000003978

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

STYRENE

| AREA/<br>SECT<br>CODE |                                           | TASK<br>CODE | ROLES | MANUFACTURER                  |      |         |
|-----------------------|-------------------------------------------|--------------|-------|-------------------------------|------|---------|
| CI054                 | HEAVY AROMATIC DISTILLATE                 |              |       |                               | 6.0  | 10.0    |
| 10                    | NO PROCESS CODE                           |              | C     | DU PONT                       |      |         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT            |              | C     | DU PONT                       |      |         |
| 70                    | CRUDE PROCESSING UNIT                     |              | C     | DU PONT                       |      |         |
| 80                    | DOCK OPERATIONS UNIT                      |              | C     | DU PONT                       |      |         |
| PC017                 | PLASITE 5602 FINAL COAT                   |              |       |                               | 30.0 | 70.0    |
| 20                    | SULFURIC ACID MFG, CONTACT                | CB50         | D     | WISCONSIN PROTECTIVE COATINGS |      |         |
| PC018                 | PLASITE 5602 VINYL ESTER TOPPING TILE RED |              |       |                               | <    | .0 30.0 |
| 20                    | SULFURIC ACID MFG, CONTACT                | CB50         | D     | WISCONSIN PROTECTIVE COATINGS |      |         |

SAL 000003979

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

STYRENE/DIVINYLBENZENE ANION EXCHANGE RESIN

| AREA/<br>SECT<br>CODE | TASK<br>CODE | ROLES | MANUFACTURER    |
|-----------------------|--------------|-------|-----------------|
| GS458                 |              |       | 35.0 55.0       |
| 12                    |              | D     | ROHM & HAAS CO. |

SAL 000003980

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID

| AREA/<br>SECT<br>CODE |                                           | TASK<br>CODE | ROLES       | MANUFACTURER |
|-----------------------|-------------------------------------------|--------------|-------------|--------------|
| CI038                 | SULFURIC ACID ALKYLATION WET BLOWDOWN GAS |              |             | .0 999.9     |
| 20                    | NO PROCESS CODE                           | C            | CONOCO INC. |              |
| 20                    | NO PROCESS CODE                           | C            | CONOCO INC. |              |
| 20                    | SULFURIC ACID ALKYLATION UNIT             | C            | CONOCO INC. |              |
| CP035                 | SULFURIC ACID                             |              |             | 100.0 100.0  |
| 12                    | UTILITY UNIT                              | AC           | CONOCO INC. |              |
| 20                    | NO PROCESS CODE                           | AC           | CONOCO INC. |              |
| 20                    | NO PROCESS CODE                           | AC           | CONOCO INC. |              |
| 20                    | NO PROCESS CODE                           | AC           | CONOCO INC. |              |
| 20                    | SULFURIC ACID ALKYLATION UNIT             | AC           | CONOCO INC. |              |
| 20                    | SULFURIC ACID MFG, CONTACT                | AC           | CONOCO INC. |              |
| 40                    | CAT REFORM, W/O HYDROGENATION             | AC           | CONOCO INC. |              |
| 40                    | WASTE TREAT, AQUEOUS                      | AC           | CONOCO INC. |              |
| 60                    | UTILITY, PUMP HOUSE (COOLING T            | AC           | CONOCO INC. |              |

SAL 000003981

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID

| AREA/<br>SECT<br>CODE |                               | TASK<br>CODE | ROLES       | MANUFACTURER |
|-----------------------|-------------------------------|--------------|-------------|--------------|
| CP036                 | SULFURIC ACID (SPENT)         |              |             | 5.0 50.0     |
| 20                    | NO PROCESS CODE               | AC           | CONOCO INC. |              |
| 20                    | NO PROCESS CODE               | AC           | CONOCO INC. |              |
| 20                    | NO PROCESS CODE               | AC           | CONOCO INC. |              |
| 20                    | SULFURIC ACID ALKYLATION UNIT | AC           | CONOCO INC. |              |
| 20                    | SULFURIC ACID MFG, CONTACT    | AC           | CONOCO INC. |              |

SAL 000003982

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID

| AREA/<br>SECT<br>CODE |                       | TASK ROLES<br>CODE | MANUFACTURER                          |
|-----------------------|-----------------------|--------------------|---------------------------------------|
| GS334                 | TRILL                 |                    | .0 999.9                              |
| 00                    | PLANT-WIDE/FIELD UNIT | D                  | NATIONAL CHEMSEARCH DIV. OF NCH CORP. |

SAL 000003983

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID

| AREA/<br>SECT<br>CODE | TASK ROLES<br>CODE         | MANUFACTURER             |
|-----------------------|----------------------------|--------------------------|
| GS402                 | MOLYBDATE REAGENT FOR P04  | .0 999.9                 |
| 20                    | SULFURIC ACID MFG, CONTACT | F BETZ LABORATORIES INC. |

SAL 000003984

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES | MANUFACTURER                     |
|-----------------------|--------------------------------|-------|----------------------------------|
| GS403                 |                                |       | .0 999.9                         |
| 20                    | SULFURIC ACID SOLUTION, 10N    |       |                                  |
| 20                    | SULFURIC ACID MFG, CONTACT     | F     | BETZ LABORATORIES INC.           |
| GS404                 |                                |       | .0 999.9                         |
| 20                    | SILICA 1 REAGENT               |       |                                  |
| 20                    | SULFURIC ACID MFG, CONTACT     | F     | BETZ LABORATORIES INC.           |
| GS419                 |                                |       | 5.0 5.0                          |
| 20                    | PHOSPHATE CHEMETS R-8510       |       |                                  |
| 20                    | SULFURIC ACID MFG, CONTACT     | F     | CHEMETRICS INC.                  |
| GS507                 |                                |       | 93.0 98.0                        |
| 12                    | SULFURIC ACID                  |       |                                  |
| 20                    | UTILITY UNIT                   | D     | CHEMICAL MARKETING SERVICES INC. |
| 20                    | NO PROCESS CODE                | D     | CHEMICAL MARKETING SERVICES INC. |
| 20                    | SULFURIC ACID ALKYLATION UNIT  | D     | CHEMICAL MARKETING SERVICES INC. |
| 40                    | CAT REFORM, W/O HYDROGENATION  | D     | CHEMICAL MARKETING SERVICES INC. |
| 40                    | WASTE TREAT, AQUEOUS           | D     | CHEMICAL MARKETING SERVICES INC. |
| 60                    | UTILITY, PUMP HOUSE (COOLING T | D     | CHEMICAL MARKETING SERVICES INC. |
|                       | SULFURIC ACID, 77 TO 100%      |       | 77.0 100.0                       |
| 12                    | UTILITY UNIT                   | D     | DU PONT                          |
| 20                    | NO PROCESS CODE                | D     | DU PONT                          |
| 20                    | SULFURIC ACID ALKYLATION UNIT  | D     | DU PONT                          |
| 40                    | CAT REFORM, W/O HYDROGENATION  | D     | DU PONT                          |
| 40                    | WASTE TREAT, AQUEOUS           | D     | DU PONT                          |
| 60                    | UTILITY, PUMP HOUSE (COOLING T | D     | DU PONT                          |

SAL 000003985

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID ACS GRADE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES | MANUFACTURER |
|-----------------------|--------------------------------|-------|--------------|
| GS409                 | MOLYBDATE 3 REAGENT FOR SILICA |       | < .0 20.0    |
| 20                    | SULFURIC ACID MFG, CONTACT     | F     | HACH CO.     |

SAL 000003986

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

SULFURIC ACID 93%

| AREA/<br>SECT<br>CODE |                                       | TASK<br>CODE | ROLES    | MANUFACTURER |    |      |
|-----------------------|---------------------------------------|--------------|----------|--------------|----|------|
| GS033                 | AMMONIUM MOLYBDATE REAGENT FOR SILICA |              |          | <            | .0 | 10.0 |
| 12                    | UTILITY UNIT                          | F            | HACH CO. |              |    |      |
| GS413                 | AMMONIUM MOLYBDATE REAGENT FOR SILICA |              |          | <            | .0 | 10.0 |
| 20                    | SULFURIC ACID MFG, CONTACT            | F            | HACH CO. |              |    |      |

SAL 000003987

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TERT BUTYL ALCOHOL

| AREA/<br>SECT<br>CODE | TASK ROLES<br>CODE | MANUFACTURER |
|-----------------------|--------------------|--------------|
|-----------------------|--------------------|--------------|

GS205 LECTRA CLEAN (AEROSOL) NO. 2018

.0 999.9

00 PLANT-WIDE/FIELD, MAINTENANCE

D CRC CHEMICALS

SAL 000003988

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TERTIARY BUTYL ALCOHOL

| AREA/<br>SECT<br>CODE | TASK ROLES<br>CODE | MANUFACTURER |
|-----------------------|--------------------|--------------|
|-----------------------|--------------------|--------------|

GS330 TRICHLOROETHANE 111 600

.0 999.9

00 PLANT-WIDE/FIELD UNIT

D THOMPSON-HAYWARD CHEMICAL CO.

SAL 000003989

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                                | TASK<br>CODE | ROLES   | MANUFACTURER |
|-----------------------|--------------------------------|--------------|---------|--------------|
| CI054                 | HEAVY AROMATIC DISTILLATE      |              |         | 10.0 15.0    |
| 10                    | NO PROCESS CODE                | C            | DU PONT |              |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | C            | DU PONT |              |
| 70                    | CRUDE PROCESSING UNIT          | C            | DU PONT |              |
| 80                    | DOCK OPERATIONS UNIT           | C            | DU PONT |              |

SAL 000003990

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                                          | ROLES | MANUFACTURER |      |           |
|-----------------------|-------------------------------------------------------|-------|--------------|------|-----------|
| CP020                 | LEADED REGULAR GASOLINE                               |       |              | 15.0 | 15.0      |
| 10                    | NO PROCESS CODE                                       | A     | CONOCO INC.  |      |           |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT                        | A     | CONOCO INC.  |      |           |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT                        | A     | CONOCO INC.  |      |           |
| 80                    | DOCK OPERATIONS UNIT                                  | A     | CONOCO INC.  |      |           |
| CP021                 | SUPER UNLEADED GASOLINE                               |       |              | 15.0 | 15.0      |
| 10                    | NO PROCESS CODE                                       | A     | CONOCO INC.  |      |           |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT                        | A     | CONOCO INC.  |      |           |
| 80                    | DOCK OPERATIONS UNIT                                  | A     | CONOCO INC.  |      |           |
| CP022                 | UNLEADED GASOLINE                                     |       |              | 15.0 | 15.0      |
| 10                    | NO PROCESS CODE                                       | A     | CONOCO INC.  |      |           |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT                        | A     | CONOCO INC.  |      |           |
| 80                    | DOCK OPERATIONS UNIT                                  | A     | CONOCO INC.  |      |           |
| CP023                 | LIGHT STRAIGHT RUN GASOLINE                           |       |              | <=   | .0 15.0   |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT                        | A     | CONOCO INC.  |      |           |
| 30                    | CRUDE PROCESSING UNIT                                 | A     | CONOCO INC.  |      |           |
| 40                    | NO PROCESS CODE                                       | A     | CONOCO INC.  |      |           |
| 70                    | CRUDE PROCESSING UNIT                                 | A     | CONOCO INC.  |      |           |
| 80                    | DOCK OPERATIONS UNIT                                  | A     | CONOCO INC.  |      |           |
| CP029                 | NAPHTHA                                               |       |              | <=   | .0 15.0   |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT                        | AC    | CONOCO INC.  |      |           |
| 80                    | DOCK OPERATIONS UNIT                                  | AC    | CONOCO INC.  |      |           |
| GS001                 | 3M SUPER WEATHERSTRIP ADHESIVE PN. 8001 - 8003 - 8004 |       |              | >    | 6.0 999.9 |
| 00                    | PLANT-WIDE/FIELD, MAINT-ROUTIN                        | D     | 3M           |      |           |

SAL 000003991

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                       | ROLES | MANUFACTURER         |
|-----------------------|------------------------------------|-------|----------------------|
| GS115                 | NR. 573 CARBON AND VARNISH REMOVER | 1.0   | 5.0                  |
| 60                    | PLANT-WIDE/FIELD, MAINTENANCE      | D     | A. W. CHESTERTON CO. |

SAL 000003992

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                                                          | TASK ROLES<br>CODE | MANUFACTURER              |
|-----------------------|----------------------------------------------------------|--------------------|---------------------------|
| GS214                 | MARSH SPRAY STENCIL INK YELLOW, GREEN & ORANGE           |                    | .0 999.9                  |
| 00                    | PLANT-WIDE/FIELD UNIT                                    | D                  | MARSH STENCIL MACHINE CO. |
| GS215                 | MARSH SPRAY STENCIL INK BLACK, RED, WHITE, BLUE & SILVER |                    | .0 999.9                  |
| 00                    | PLANT-WIDE/FIELD UNIT                                    | D                  | MARSH STENCIL MACHINE CO. |

SAL 000003993

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                               | TASK ROLES<br>CODE | MANUFACTURER     |    |     |
|-----------------------|-------------------------------|--------------------|------------------|----|-----|
| GS216                 | 1-854                         |                    | <                | .0 | 1.0 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE | D                  | MATCOTE CO. INC. |    |     |

SAL 000003994

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                                       | TASK<br>CODE | ROLES                | MANUFACTURER |      |      |
|-----------------------|---------------------------------------|--------------|----------------------|--------------|------|------|
| GS267                 | OCE*REVERSAL TONER 2610000 OR 2610001 |              |                      |              | 12.0 | 12.0 |
| 00                    | PLANT-WIDE/FIELD, SRVCS-ENGR,I        | D            | OCE*-INDUSTRIES INC. |              |      |      |
| GS316                 | MOTOR FUEL ANTIKNOCK COMPOUND         |              |                      |              | 1.0  | 13.0 |
| 10                    | NO PROCESS CODE                       | C            | ETHYL CORP.          |              |      |      |
| 10                    | REC/STOR/MOVE, BLENDING-PRODUC        | C            | ETHYL CORP.          |              |      |      |

SAL 000003995

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                     | TASK<br>CODE | ROLES | MANUFACTURER             |
|-----------------------|---------------------|--------------|-------|--------------------------|
| GS322                 | TOLUENE             |              |       | > 99.0 999.9             |
| 14                    | PLANT LABORATORY-QC | D            |       | VAN WATERS & ROGERS INC. |
| 14                    | PLANT LABORATORY-QC | F            |       | VAN WATERS & ROGERS INC. |

SAL 000003996

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                      | ROLES | MANUFACTURER          |      |      |
|-----------------------|-----------------------------------|-------|-----------------------|------|------|
| GS381                 | TOLUENE STANDARDIZATION FUEL 1010 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1025 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1033 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1042 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1061 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1080 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1099 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 1118 |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 948  |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |
|                       | TOLUENE STANDARDIZATION FUEL 960  |       |                       | 74.0 | 74.0 |
| 14                    | PLANT LABORATORY-QC               | F     | PHILLIPS CHEMICAL CO. |      |      |

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE            | TASK<br>CODE | ROLES                 | MANUFACTURER |
|----------------------------------|--------------|-----------------------|--------------|
| TOLUENE STANDARDIZATION FUEL 967 |              |                       | 74.0 74.0    |
| 14 PLANT LABORATORY-QC           | F            | PHILLIPS CHEMICAL CO. |              |
| TOLUENE STANDARDIZATION FUEL 972 |              |                       | 74.0 74.0    |
| 14 PLANT LABORATORY-QC           | F            | PHILLIPS CHEMICAL CO. |              |
| TOLUENE STANDARDIZATION FUEL 983 |              |                       | 74.0 74.0    |
| 14 PLANT LABORATORY-QC           | F            | PHILLIPS CHEMICAL CO. |              |
| TOLUENE STANDARDIZATION FUEL 996 |              |                       | 74.0 74.0    |
| 14 PLANT LABORATORY-QC           | F            | PHILLIPS CHEMICAL CO. |              |

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                            | TASK<br>CODE | ROLES             | MANUFACTURER |
|-----------------------|----------------------------|--------------|-------------------|--------------|
| GS397                 | TOLUOL                     |              |                   | > 99.0 999.9 |
| 20                    | SULFURIC ACID MFG, CONTACT | F            | FISHER SCIENTIFIC |              |

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK                                          | ROLES | MANUFACTURER          |      |            |
|-----------------------|-----------------------------------------------|-------|-----------------------|------|------------|
| GS427                 | ZINC RE-MU (AEROSOL)                          | 3074  |                       | 4.0  | 4.0        |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE                 | D     | CRC CHEMICALS         |      |            |
| GS435                 | ISOOCTANE (RESEARCH, PURE AND SPECTRO GRADES) |       |                       | .0   | 999.9      |
| 14                    | PLANT LABORATORY-QC                           | F     | PHILLIPS CHEMICAL CO. |      |            |
| GS485                 | TOLUENE AND REFERENCE FUEL, TOLUENE           |       |                       | >    | 99.9 999.9 |
| 14                    | PLANT LABORATORY-QC                           | F     | PHILLIPS 66 CO.       |      |            |
| GS486                 | TOLUENE STANDARDIZATION FUEL 934              |       |                       | 74.0 | 74.0       |
| 14                    | PLANT LABORATORY-QC                           | F     | PHILLIPS 66 CO.       |      |            |
| GS489                 | 421 CLEAR PROTECTIVE COATING (AEROSOL)        |       |                       | 25.0 | 30.0       |
| 90                    | PLANT-WIDE/FIELD, MAINT-ROUTIN                | D     | A. W. CHESTERTON CO.  |      |            |
| GS510                 | MT50 BLEND                                    |       |                       | >    | 9.0 999.9  |
| 00                    | PLANT-WIDE/FIELD UNIT                         | D     | SOUTHWEST SOLV & CHEM |      |            |
| GS534                 | DU PONT 25P                                   |       |                       | .0   | 999.9      |
| 00                    | PLANT-WIDE/FIELD UNIT                         | D     | DUPONT                |      |            |
| GS537                 | 03108 BLACK INK S-108                         |       |                       | 10.0 | 10.0       |
| 00                    | PLANT-WIDE/FIELD UNIT                         | D     | SPRAYON PRODUCTS      |      |            |
| GS538                 | 03105 WHITE INK 8-105                         |       |                       | 10.0 | 10.0       |
| 00                    | PLANT-WIDE/FIELD UNIT                         | D     | SPRAYON PRODUCTS      |      |            |

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LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES | MANUFACTURER |                     |     |      |
|-----------------------|--------------------------------|-------|--------------|---------------------|-----|------|
| PC001                 | CARBONASTIC 14                 |       |              | <                   | .0  | 5.0  |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50  | D            | CARBOLINE CO.       |     |      |
| 90                    | NO PROCESS CODE                |       | D            | CARBOLINE CO.       |     |      |
| PC002                 | WHITE URETHANE ENAMEL 326Y     |       |              |                     | 2.0 | 2.0  |
| 00                    | PLANT-WIDE/FIELD UNIT          |       | D            | DU PONT             |     |      |
| 10                    | PLANT-WIDE/FIELD UNIT          |       | D            | DU PONT             |     |      |
| PC004                 | T 3871                         |       |              |                     | 1.0 | 1.0  |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50  | D            | DU PONT             |     |      |
| 90                    | NO PROCESS CODE                |       | D            | DU PONT             |     |      |
| PC005                 | ACTIVATOR/CLEAR VGY 511        |       |              |                     | 6.0 | 6.0  |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50  | D            | DU PONT             |     |      |
| PC007                 | EPA857/EPA858 (1-857 A & B)    |       |              | <                   | .0  | 20.0 |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50  | D            | INTERNATIONAL PAINT |     |      |

SAL 000004001

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES  | MANUFACTURER        |
|-----------------------|--------------------------------|--------|---------------------|
| PC011                 | GTA406 (4-076)                 |        | < .0 45.0           |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50 D | INTERNATIONAL PAINT |

SAL 000004002

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                                 | TASK<br>CODE | ROLES | MANUFACTURER        |      |      |
|-----------------------|---------------------------------|--------------|-------|---------------------|------|------|
| PC012                 | 6TA409 (4-079)                  |              |       |                     | 10.0 | 10.0 |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT  | CB50         | D     | INTERNATIONAL PAINT |      |      |
| PC013                 | INTERGARD CURING AGENT (EC5725) |              |       |                     | 40.0 | 45.0 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE   | CB50         | D     | INTERNATIONAL PAINT |      |      |

SAL 000004003

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                                         | TASK<br>CODE | ROLES | MANUFACTURER |      |
|-----------------------|-----------------------------------------|--------------|-------|--------------|------|
| PC014                 | KRYLON INT./EXT. ENAMEL OR ENGINE COLOR |              |       | 2.0          | 3.0  |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE           | CB50         | D     | BORDEN       |      |
| PC015                 | KRYLON SPRAY PRIMER                     |              |       | 23.0         | 27.0 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE           | CB50         | D     | BORDEN       |      |
| 90                    | NO PROCESS CODE                         |              | D     | BORDEN       |      |

SAL 000004004

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE | TASK                           | ROLES  | MANUFACTURER        |
|-----------------------|--------------------------------|--------|---------------------|
| PC019                 | PYROCOTE 787                   |        | > 1.0 999.9         |
| 70                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50 D | CARBOLINE CO.       |
| PC025                 | THA505/THA506 (1-8505 A & B)   |        | < .0 2.0            |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50 D | INTERNATIONAL PAINT |
| PC026                 | THA525/THA526 (1-8525 A & B)   |        | < .0 2.0            |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50 D | INTERNATIONAL PAINT |
| PC027                 | THA852/THA724 (1-852 A & B)    |        | > 1.0 999.9         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50 D | INTERNATIONAL PAINT |
| PC028                 | THA855/THA724 (1-850 A & B)    |        | > 12.0 999.9        |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50 D | INTERNATIONAL PAINT |
| PC029                 | TPA830/FHA725 (1-830 A & B)    |        | > 6.0 999.9         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50 D | INTERNATIONAL PAINT |

SAL 000004005

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE

| AREA/<br>SECT<br>CODE |                             | TASK<br>CODE | ROLES | MANUFACTURER                  |          |
|-----------------------|-----------------------------|--------------|-------|-------------------------------|----------|
| PC030                 | PLASITE 7155 LIGHT GRAY     |              |       | <                             | .0 30.0  |
| 00                    | PLANT-WIDE/FIELD UNIT       | CR50         | D     | WISCONSIN PROTECTIVE COATINGS |          |
| PC031                 | AEROSOLS, PAINT - LEAD FREE |              |       |                               | .0 999.9 |
| 00                    | PLANT-WIDE/FIELD UNIT       |              | D     | RAABE PAINT CO. INC.          |          |

SAL 000004006

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

TOLUENE METHYLBENZENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE            | ROLES | MANUFACTURER                  |
|-----------------------|-------------------------|-------|-------------------------------|
| PC032                 | PLASITE 9060 LIGHT BLUE |       | 2.0 5.0                       |
| 20                    | THERMAL CRACKING UNIT   | D     | WISCONSIN PROTECTIVE COATINGS |

SAL 000004007

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

VANADIUM

| AREA/<br>SECT<br>CODE |                            | TASK<br>CODE | ROLES                 | MANUFACTURER |    |     |
|-----------------------|----------------------------|--------------|-----------------------|--------------|----|-----|
| GS542                 | CARBON AND ALLOY STEELS    |              |                       | <            | .0 | 1.0 |
| 00                    | PLANT-WIDE/FIELD UNIT      | D            | HARMON/KEystone CORP. |              |    |     |
| GS544                 | CHROME PLATED CARBON STEEL |              |                       | <            | .0 | 1.0 |
| 00                    | PLANT-WIDE/FIELD UNIT      | D            | HARMON/KEystone CORP. |              |    |     |
| GS545                 | ALUMINUM ALLOY             |              |                       | <            | .0 | 1.0 |
| 00                    | PLANT-WIDE/FIELD UNIT      | D            | HARMON/KEystone CORP. |              |    |     |

SAL 000004008

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

| AREA/<br>SECT<br>CODE | TASK<br>CODE | ROLES | MANUFACTURER |
|-----------------------|--------------|-------|--------------|
|-----------------------|--------------|-------|--------------|

> 99.0 999.9

I VISTA CHEMICAL CO.

I VISTA CHEMICAL CO.

SAL 000004009

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE |                               | TASK<br>CODE | ROLES | MANUFACTURER       |      |       |
|-----------------------|-------------------------------|--------------|-------|--------------------|------|-------|
| GS004                 | ACRILAST 570                  |              |       |                    | 15.0 | 15.0  |
| 70                    | PLANT-WIDE/FIELD, MAINTENANCE | CB50         | D     | CARBOLINE CO.      |      |       |
| GS020                 | ALPHACHEM 2061 DEGREASER      |              |       |                    | .0   | 999.9 |
| 00                    | PLANT-WIDE/FIELD UNIT         |              | D     | ALPHA CHEMICAL CO. |      |       |
| GS021                 | ALPHACHEM 2063 DEGREASER      |              |       |                    | .0   | 999.9 |
| 60                    | NO PROCESS CODE               |              | D     | ALPHA CHEMICAL CO. |      |       |
| 70                    | NO PROCESS CODE               |              | D     | ALPHA CHEMICAL CO. |      |       |

SAL 000004010

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE           | ROLES | MANUFACTURER                |
|-----------------------|------------------------|-------|-----------------------------|
| GS047                 |                        |       | .0 999.9                    |
| 40                    | WASTE TREAT, AQUEOUS   | D     | BETZ PROCESS CHEMICALS INC. |
| GS063                 |                        |       | .0 999.9                    |
| 40                    | WASTE TREAT, AQUEOUS   | D     | BETZ PROCESS CHEMICALS INC. |
| GS069                 |                        |       | .0 999.9                    |
| 60                    | PETROMEEEN AF111       |       |                             |
| 60                    | HYDROGEN TREATING UNIT | D     | BETZ PROCESS CHEMICALS INC. |

SAL 000004011

**MAR 26, 1990**

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

**XYLENE**

| AREA/<br>SECT<br>CODE | TASK<br>CODE | ROLES | MANUFACTURER |
|-----------------------|--------------|-------|--------------|
|-----------------------|--------------|-------|--------------|

GS133      CORTEC 347

**1.0      5.0**

50 COKING UNIT

D SEALED AIR CORP.

SAL 000004012

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK                              | ROLES<br>CODE | MANUFACTURER |                                       |       |
|-----------------------|-----------------------------------|---------------|--------------|---------------------------------------|-------|
| GS141                 | DUPONT CORROSION INHIBITOR NO. 4A |               |              | 25.0                                  | 25.0  |
| 10                    | NO PROCESS CODE                   | C             | DU PONT      |                                       |       |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT    | C             | DU PONT      |                                       |       |
| GS142                 | DCI-6                             |               |              | 21.0                                  | 21.0  |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT    | C             | DU PONT      |                                       |       |
| GS149                 | DIESEL GUARD                      |               |              | .0                                    | 999.9 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE     | DXXX          | D            | NATIONAL CHEMSEARCH                   |       |
| GS162                 | FOA-11                            |               |              | 1.0                                   | 1.0   |
| 10                    | REC/STOR/MOVE, BLENDING-PRODUC    | C             | DU PONT      |                                       |       |
| GS169                 | "ETHYL" HMT DILUTE                |               |              | .0                                    | 999.9 |
| 10                    | REC/STOR/MOVE, BLENDING-PRODUC    | C             | ETHYL CORP.  |                                       |       |
| GS178                 | GASGUARD                          |               |              | .0                                    | 999.9 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE     | DXXX          | D            | NATIONAL CHEMSEARCH DIV. OF NCH CORP. |       |

SAL 000004013

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                  | ROLES | MANUFACTURER     |
|-----------------------|-------------------------------|-------|------------------|
| GS216                 | 1-854                         |       | > 8.0 999.9      |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE | D     | MATCOTE CO. INC. |

SAL 000004014

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES | MANUFACTURER       |       |       |
|-----------------------|--------------------------------|-------|--------------------|-------|-------|
| GS254                 | VI-SEP 449 EMULSION BREAKER    |       |                    | 5.0   | 10.0  |
| 70                    | CRUDE PROCESSING UNIT          | D     | MALCO CHEMICAL CO. |       |       |
| GS270                 | C. I. SOLVENT RED 164          |       |                    | 30.0  | 30.0  |
| 10                    | NO PROCESS CODE                | C     | DU PONT            |       |       |
| 10                    | REC/STOR/MOVE, BLENDING-PRODUC | C     | DU PONT            |       |       |
| 99                    | REC/STOR/MOVE, WAREHOUSE       | C     | DU PONT            |       |       |
| GS316                 | MOTOR FUEL ANTIKNOCK COMPOUND  |       |                    | 49.0  | 50.0  |
| 10                    | NO PROCESS CODE                | C     | ETHYL CORP.        |       |       |
| 10                    | REC/STOR/MOVE, BLENDING-PRODUC | C     | ETHYL CORP.        |       |       |
| GS427                 | ZINC RE-MU (AEROSOL) 3074      |       |                    | > 7.0 | 999.9 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | D     | CRC CHEMICALS      |       |       |

SAL 000004015

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE |                       | TASK<br>CODE | ROLES               | MANUFACTURER |      |
|-----------------------|-----------------------|--------------|---------------------|--------------|------|
| GS432                 | P-10 BLACK MARKER INK |              |                     | 62.0         | 62.0 |
| 14                    | PLANT LABORATORY-QC   | D            | PACIFIC POLY CRAFTS |              |      |

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES | MANUFACTURER     |      |        |
|-----------------------|--------------------------------|-------|------------------|------|--------|
| GS438                 |                                |       |                  | 20.0 | 20.0   |
|                       |                                |       |                  |      |        |
| 70                    | H2 TREAT, DESULF/DENITRIF      | D     | DU PONT          |      |        |
| 99                    | REC/STOR/MOVE, WAREHOUSE       | D     | DU PONT          |      |        |
| GS514                 |                                |       |                  | 10.0 | 10.0   |
|                       |                                |       |                  |      |        |
| 20                    | SULFURIC ACID MFG, CONTACT     | D     | PECORA CORP.     |      |        |
| GS529                 |                                |       |                  | 20.0 | 30.0   |
|                       |                                |       |                  |      |        |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | DC    | DU PONT          |      |        |
| GS538                 |                                |       |                  | <    | .0 5.0 |
|                       |                                |       |                  |      |        |
| 00                    | PLANT-WIDE/FIELD UNIT          | D     | SPRAYON PRODUCTS |      |        |

SAL 000004017

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK                           | ROLES | MANUFACTURER |                     |        |
|-----------------------|--------------------------------|-------|--------------|---------------------|--------|
| PC001                 | CARBOMASTIC 14                 |       |              | 10.0                | 10.0   |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50  | D            | CARBOLINE CO.       |        |
| 90                    | NO PROCESS CODE                |       | D            | CARBOLINE CO.       |        |
| PC004                 | T 3871                         |       |              | 84.0                | 84.0   |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50  | D            | DU PONT             |        |
| 90                    | NO PROCESS CODE                |       | D            | DU PONT             |        |
| PC005                 | ACTIVATOR/CLEAR VGY 511        |       |              | 5.0                 | 5.0    |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE  | CB50  | D            | DU PONT             |        |
| PC007                 | EPA857/EPA858 (1-857 A & B)    |       |              | <                   | .0 5.0 |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50  | D            | INTERNATIONAL PAINT |        |
| PC012                 | STA409 (4-079)                 |       |              | 30.0                | 30.0   |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50  | D            | INTERNATIONAL PAINT |        |

SAL 000004018

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE |                                         | TASK ROLES<br>CODE | MANUFACTURER |      |
|-----------------------|-----------------------------------------|--------------------|--------------|------|
| PC014                 | KRYLON INT./EXT. ENAMEL OR ENGINE COLOR |                    | 6.0          | 14.0 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE           | CB50 D             | BORDEN       |      |

SAL 000004019

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

KYLENE

| AREA/<br>SECT<br>CODE |                               | TASK<br>CODE | ROLES | MANUFACTURER  |           |
|-----------------------|-------------------------------|--------------|-------|---------------|-----------|
| PC019                 | PYROCOTE 767                  |              |       | >             | 1.0 999.9 |
| 70                    | PLANT-WIDE/FIELD, MAINTENANCE | CB50         | D     | CARBOLINE CO. |           |

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE | ROLES | MANUFACTURER |
|-----------------------|--------------|-------|--------------|
|-----------------------|--------------|-------|--------------|

|       |                                           |  |              |
|-------|-------------------------------------------|--|--------------|
| PC022 | RED URETHANE SEAL COAT (AEROSOL) NO. 2044 |  | > 13.0 999.9 |
|-------|-------------------------------------------|--|--------------|

|    |                               |        |               |
|----|-------------------------------|--------|---------------|
| 00 | PLANT-WIDE/FIELD, MAINTENANCE | CB50 D | CRC CHEMICALS |
| 90 | NO PROCESS CODE               | D      | CRC CHEMICALS |

SAL 000004021

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE |                                | TASK<br>CODE | ROLES | MANUFACTURER        |   |      |       |
|-----------------------|--------------------------------|--------------|-------|---------------------|---|------|-------|
| PC027                 | THA852/THA724 (1-852 A & B)    |              |       |                     | < | .0   | 1.0   |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50         | D     | INTERNATIONAL PAINT |   |      |       |
| PC028                 | THA855/THA724 (1-850 A & B)    |              |       |                     | < | .0   | 1.0   |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50         | D     | INTERNATIONAL PAINT |   |      |       |
| PC029                 | TPA830/FNA725 (1-830 A & B)    |              |       |                     | > | 12.0 | 999.9 |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | CB50         | D     | INTERNATIONAL PAINT |   |      |       |

SAL 000004022

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK<br>CODE | ROLES | MANUFACTURER |
|-----------------------|--------------|-------|--------------|
|                       |              |       |              |
|                       |              |       |              |

PC030      PLASITE 7155 LIGHT GRAY      <      .0      30.0

00      PLANT-WIDE/FIELD UNIT      CB50      D      WISCONSIN PROTECTIVE COATINGS

SAL 000004023

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENE

| AREA/<br>SECT<br>CODE | TASK ROLES<br>CODE | MANUFACTURER |
|-----------------------|--------------------|--------------|
|-----------------------|--------------------|--------------|

PC031 AEROSOLS, PAINT - LEAD FREE

.0 999.9

00 PLANT-WIDE/FIELD UNIT

D RAABE PAINT CO. INC.

SAL 000004024

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENES

| AREA/<br>SECT<br>CODE | TASK<br>CODE                   | ROLES | MANUFACTURER |      |         |
|-----------------------|--------------------------------|-------|--------------|------|---------|
| CP020                 | LEADED REGULAR GASOLINE        |       |              | 12.0 | 12.0    |
| 10                    | NO PROCESS CODE                | A     | CONOCO INC.  |      |         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | A     | CONOCO INC.  |      |         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | A     | CONOCO INC.  |      |         |
| 80                    | DOCK OPERATIONS UNIT           | A     | CONOCO INC.  |      |         |
| CP021                 | SUPER UNLEADED GASOLINE        |       |              | 12.0 | 12.0    |
| 10                    | NO PROCESS CODE                | A     | CONOCO INC.  |      |         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | A     | CONOCO INC.  |      |         |
| 80                    | DOCK OPERATIONS UNIT           | A     | CONOCO INC.  |      |         |
| CP022                 | UNLEADED GASOLINE              |       |              | 12.0 | 12.0    |
| 10                    | NO PROCESS CODE                | A     | CONOCO INC.  |      |         |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | A     | CONOCO INC.  |      |         |
| 80                    | DOCK OPERATIONS UNIT           | A     | CONOCO INC.  |      |         |
| CP023                 | LIGHT STRAIGHT RUN GASOLINE    |       |              | <=   | .0 12.0 |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | A     | CONOCO INC.  |      |         |
| 30                    | CRUDE PROCESSING UNIT          | A     | CONOCO INC.  |      |         |
| 40                    | NO PROCESS CODE                | A     | CONOCO INC.  |      |         |
| 70                    | CRUDE PROCESSING UNIT          | A     | CONOCO INC.  |      |         |
| 80                    | DOCK OPERATIONS UNIT           | A     | CONOCO INC.  |      |         |
| CP029                 | NAPHTHA                        |       |              | <=   | .0 12.0 |
| 10                    | RECEIPT/STORAGE/MOVEMENTS UNIT | AC    | CONOCO INC.  |      |         |
| 80                    | DOCK OPERATIONS UNIT           | AC    | CONOCO INC.  |      |         |
| GS269                 | OIL BRONZE LIQUID              |       |              | 40.0 | 40.0    |
| 10                    | NO PROCESS CODE                | C     | DU PONT      |      |         |
| 10                    | REC/STOR/MOVE, BLENDING-PRODUC | C     | DU PONT      |      |         |
| 99                    | REC/STOR/MOVE, WAREHOUSE       | C     | DU PONT      |      |         |

SAL 000004025

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

XYLENES

| AREA/<br>SECT<br>CODE |                           | TASK<br>CODE | ROLES   | MANUFACTURER |      |
|-----------------------|---------------------------|--------------|---------|--------------|------|
| GS447                 | DMD-2                     |              |         | 40.0         | 50.0 |
| 70                    | H2 TREAT, DESULF/DENITRIF | D            | DU PONT |              |      |

SAL 000004026

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

ZINC

| AREA/<br>SECT<br>CODE |                       | TASK<br>CODE | ROLES | MANUFACTURER          |
|-----------------------|-----------------------|--------------|-------|-----------------------|
| GS545                 | ALUMINUM ALLOY        |              |       | < .0 7.0              |
| 00                    | PLANT-WIDE/FIELD UNIT | D            |       | HARNON/KEystone CORP. |

SAL 000004027

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

ZINC

| AREA/<br>SECT<br>CODE | TASK ROLES<br>CODE | MANUFACTURER |
|-----------------------|--------------------|--------------|
|-----------------------|--------------------|--------------|

GS577 ZINC, 1000 PPM (0.100% W/V)

< .0 1.0

14 PLANT LABORATORY-QC

F J. T. BAKER INC.

SAL 000004028

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

ZINC COATING

| AREA/<br>SECT<br>CODE |                         | TASK ROLES<br>CODE | MANUFACTURER          |
|-----------------------|-------------------------|--------------------|-----------------------|
| CS542                 | CARBON AND ALLOY STEELS |                    | .0 999.9              |
| 00                    | PLANT-WIDE/FIELD UNIT   | D                  | HARMON/KEYSTONE CORP. |

SAL 000004029

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

ZINC DUST

| AREA/<br>SECT<br>CODE | TASK ROLES<br>CODE            | MANUFACTURER    |
|-----------------------|-------------------------------|-----------------|
| GS427                 | ZINC RE-MU (AEROSOL) 3074     | > 27.0 999.9    |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE | D CRC CHEMICALS |

SAL 000004030

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

1,1,1-TRICHLOROETHANE

| AREA/<br>SECT<br>CODE |                                 | TASK ROLES<br>CODE | MANUFACTURER       |
|-----------------------|---------------------------------|--------------------|--------------------|
| GS019                 | ALPHACHEN 2056 SOLVENT EMULSION |                    | .0 999.9           |
| 70                    | CRUDE PROCESSING UNIT           | D                  | ALPHA CHEMICAL CO. |

SAL 000004031

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

1,1,1-TRICHLOROETHANE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                    | ROLES  | MANUFACTURER                          |      |       |
|-----------------------|---------------------------------|--------|---------------------------------------|------|-------|
| GS095                 | BRAKE JOB AEROSOL               |        |                                       | .0   | 999.9 |
| 90                    | MAINTENANCE SHOP UNIT           | D      | NATIONAL CHEMSEARCH DIV. OF NCH CORP. |      |       |
| GS109                 | CARB CARE AEROSOL               |        |                                       | .0   | 999.9 |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE   | DXXX D | NATIONAL CHEMSEARCH DIV. OF NCH CORP. |      |       |
| GS119                 | CHLOROTHENE SM SOLVENT          |        |                                       | 96.5 | 96.5  |
| 20                    | SULFUR RECOVERY, CLAUS          | D      | DOW CHEMICAL USA                      |      |       |
| GS137                 | CABLE CLEANER 2069              |        |                                       | 72.0 | 72.0  |
| 00                    | PLANT-WIDE/FIELD UNIT           | D      | CRC CHEMICALS                         |      |       |
| GS138                 | CABLE CLEANER 2087              |        |                                       | 92.0 | 92.0  |
| 00                    | PLANT-WIDE/FIELD UNIT           | D      | CRC CHEMICALS                         |      |       |
| GS140                 | ELECTRICAL QUALITY SILICONE     |        |                                       | 51.0 | 51.0  |
| 00                    | PLANT-WIDE/FIELD UNIT           | D      | CRC CHEMICALS                         |      |       |
| GS172                 | EZE-WAY AEROSOL                 |        |                                       | .0   | 999.9 |
| 00                    | PLANT-WIDE/FIELD UNIT           | D      | NATIONAL CHEMSEARCH DIV. OF NCH CORP. |      |       |
| GS205                 | LECTRA CLEAN (AEROSOL) NO. 2018 |        |                                       | 89.7 | 89.7  |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE   | D      | CRC CHEMICALS                         |      |       |
| GS286                 | PJ1 HEAVY DUTY CHAIN LUBE       |        |                                       | 42.0 | 42.0  |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE   | D      | PJ1 CORP.                             |      |       |

SAL 000004032

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

| AREA/<br>SECT<br>CODE | TASK<br>CODE | ROLES | MANUFACTURER |
|-----------------------|--------------|-------|--------------|
|-----------------------|--------------|-------|--------------|

|    |                               |      |   |                         |
|----|-------------------------------|------|---|-------------------------|
| 00 | PLANT-WIDE/FIELD, MAINTENANCE | DXXX | D | STATE CHEMICAL MFG. CO. |
|----|-------------------------------|------|---|-------------------------|

SAL 000004033

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

1,1,1-TRICHLOROETHANE

| AREA/<br>SECT<br>CODE |                         | TASK ROLES<br>CODE | MANUFACTURER                  |
|-----------------------|-------------------------|--------------------|-------------------------------|
| GS330                 | TRICHLOROETHANE 111 600 |                    | > 95.0 999.9                  |
| 00                    | PLANT-WIDE/FIELD UNIT   | D                  | THOMPSON-HAYWARD CHEMICAL CO. |

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

1,1,1-TRICHLOROETHANE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                  | ROLES | MANUFACTURER        |
|-----------------------|-------------------------------|-------|---------------------|
| GS332                 | TRI-ETHANE 348                |       | 100.0 100.0         |
| 40                    | CAT REFORM, W/O HYDROGENATION | D     | PPG INDUSTRIES INC. |

SAL 000004035

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

1,1,1-TRICHLOROETHANE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                              | ROLES  | MANUFACTURER                  |
|-----------------------|-------------------------------------------|--------|-------------------------------|
| GS392                 | AZTRON EMC 4                              |        | .0 999.9                      |
| 90                    | PLANT-WIDE/FIELD UNIT                     | CC10 D | AZTRON CHEMICAL SERVICES INC. |
| GS516                 | RUST BLOCK AEROSOL                        |        | .0 999.9                      |
| 90                    | PLANT-WIDE/FIELD, MAINTENANCE             | D      | NATIONAL CHEMSEARCH           |
| GS517                 | SS-80 HV AEROSOL                          |        | .0 999.9                      |
| 90                    | PLANT-WIDE/FIELD, MAINTENANCE             | D      | NATIONAL CHEMSEARCH           |
| GS591                 | SS-80 AEROSOL                             |        | .0 999.9                      |
| 90                    | PLANT-WIDE/FIELD, MAINTENANCE             | D      | NATIONAL CHEMSEARCH           |
| PC022                 | RED URETHANE SEAL COAT (AEROSOL) NO. 2044 |        | 17.0 17.0                     |
| 00                    | PLANT-WIDE/FIELD, MAINTENANCE             | CB50 D | CRC CHEMICALS                 |
| 90                    | NO PROCESS CODE                           | D      | CRC CHEMICALS                 |

SAL 000004036

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

1,1,1, TRICHLOROETHANE

| AREA/<br>SECT<br>CODE | TASK<br>CODE                  | ROLES | MANUFACTURER        |
|-----------------------|-------------------------------|-------|---------------------|
| GS515                 |                               |       | .0 999.9            |
| 90                    | PLANT-WIDE/FIELD, MAINTENANCE | D     | NATIONAL CHEMSEARCH |
|                       |                               |       | 1055                |

SAL 000004037

MAR 26, 1990

LAKE CHARLES REFINERY  
REPORT LIST  
FOR TRADE NAMES OF COMPONENTS

2,4- & 2,5-DIMETHYLPHENOL

| AREA/<br>SECT<br>CODE | TASK<br>CODE              | ROLES | MANUFACTURER |
|-----------------------|---------------------------|-------|--------------|
| GS447                 | DMD-2                     |       | < .0 1.0     |
| 70                    | H2 TREAT, DESULF/DENITRIF | D     | DU PONT      |

SAL 000004038

## **APPENDIX B**

### **EMISSION FACTORS**

SARA TITLE III, SECTION 313  
1990 TOXIC CHEMICAL RELEASE INVENTORY  
LAKE CHARLES REFINERY

SAL 000004039

TABLE D-1. AVERAGE FUGITIVE EMISSION FACTORS FOR THE SYNTHETIC ORGANIC CHEMICALS MANUFACTURING INDUSTRY (SOCMI)<sup>a</sup>

| Fugitive-emission source | Emission factor (lb/h) |
|--------------------------|------------------------|
| Pump seals               |                        |
| Light liquids            | 0.11                   |
| Heavy liquids            | 0.047                  |
| Valves (in-line)         |                        |
| Gas                      | 0.012                  |
| Light liquid             | 0.016                  |
| Heavy liquid             | 0.00051                |
| Gas safety-relief valves | 0.23                   |
| Open-ended lines         | 0.0037                 |
| Flanges                  | 0.0018                 |
| Sampling connections     | 0.033                  |
| Compressor seals         | 0.50                   |

<sup>a</sup> Emission Factors for Equipment Leaks of VOC and HAP, EPA-450/3-86-002, January 1986, Table 3-4. These factors take into account a leak frequency determined from field studies in the synthetic organic chemicals manufacturing industry. Light liquids have a vapor pressure greater than 0.1 psia at 100°F.

REFERENCE - ESTIMATING RELEASES AND WASTE TREATMENT EFFICIENCIES FOR THE TOXIC CHEMICAL RELEASE INVENTORY FORM, EPA, 12-87, p. D-2

TABLE D-2. LEAKING AND NONLEAKING AVERAGE FUGITIVE EMISSION FACTORS FOR THE SYNTHETIC ORGANIC CHEMICALS MANUFACTURING INDUSTRY (SOCMI)<sup>a</sup> (1)

| Fugitive-emission source | Leaking (>10,000 ppm)<br>emission factor (lb/h) | Nonleaking (<10,000 ppm)<br>emission factor (lb/h) |
|--------------------------|-------------------------------------------------|----------------------------------------------------|
| Pump seals               |                                                 |                                                    |
| Light liquids            | 0.96                                            | 0.026                                              |
| Heavy liquids            | 0.85                                            | 0.030                                              |
| Valves (in-line)         |                                                 |                                                    |
| Gas                      | 0.099                                           | 0.0011                                             |
| Light liquid             | 0.19                                            | 0.0038                                             |
| Heavy liquid             | 0.00051                                         | 0.00051                                            |
| Gas safety-relief valves | 3.72                                            | 0.098                                              |
| Open-ended lines         | 0.0263                                          | 0.0033                                             |
| Flanges                  | 0.083                                           | 0.00013                                            |
| Sampling connections     | -                                               | -                                                  |
| Compressor seals         | 3.54                                            | 0.20                                               |

<sup>a</sup> Emission Factors for Equipment Leaks of VOC and HAP, EPA-450/3-86-002, January 1986, Table 3-3. These factors take into account a leak frequency determined from field studies in the synthetic organic chemicals manufacturing industry. Light liquids have a vapor pressure greater than 0.1 psia at 100°F.

REFERENCE - EPA GUIDANCE DOCUMENT, p. D-3

(1) Leak frequency data in Appendix I.

Table 9.1-2. FUGITIVE EMISSION FACTORS FOR PETROLEUM REFINERIES<sup>a</sup>

| Emission Source                                            | Process Stream Type | Emission Factor Units                   | Emission Factors                    |                      | Applicable Control Technology                                                                               | Emission Factor Rating |
|------------------------------------------------------------|---------------------|-----------------------------------------|-------------------------------------|----------------------|-------------------------------------------------------------------------------------------------------------|------------------------|
|                                                            |                     |                                         | Uncontrolled Emissions <sup>c</sup> | Controlled Emissions |                                                                                                             |                        |
| petline valves <sup>d</sup>                                | II                  | lb/hr-source                            | 0.059 (0.030 - 0.110)               | NA                   | Monitoring and maintenance programs                                                                         | A                      |
|                                                            |                     | kg/day-source                           | 0.64 (0.32 - 1.19)                  |                      |                                                                                                             |                        |
|                                                            | III                 | "                                       | 0.024 (0.017 - 0.036)               | NA                   |                                                                                                             |                        |
|                                                            |                     | "                                       | 0.26 (0.18 - 0.39)                  |                      |                                                                                                             |                        |
|                                                            | IV                  | "                                       | 0.0005 (0.0002 - 0.0015)            | NA                   |                                                                                                             |                        |
| Open ended valves <sup>d,e</sup>                           |                     | "                                       | 0.005 (0.002 - 0.016)               | NA                   | Installation of cap or plug on open end of valve/line                                                       | A                      |
|                                                            | I                   | "                                       | 0.05 (0.017 - 0.17)                 |                      |                                                                                                             |                        |
|                                                            |                     | "                                       |                                     |                      |                                                                                                             |                        |
| Flanges <sup>d</sup>                                       | I                   | "                                       | 0.00056 (0.0002 - 0.0025)           | NA                   | Monitoring and maintenance programs                                                                         | A                      |
|                                                            |                     | "                                       | 0.0061 (0.002 - 0.027)              |                      |                                                                                                             |                        |
| Pump seals <sup>d</sup>                                    | III                 | "                                       | 0.25 (0.16 - 0.37)                  | NA                   | Mechanical seals, dual seals, purged seals, monitoring and maintenance programs, controlled degassing vents | A                      |
|                                                            |                     | "                                       | 2.7 (1.7 - 4.0)                     |                      |                                                                                                             |                        |
|                                                            | IV                  | "                                       | 0.046 (0.019 - 0.11)                | NA                   |                                                                                                             |                        |
| Compressor seals <sup>d</sup>                              |                     | "                                       | 0.50 (0.21 - 1.2)                   |                      | Mechanical seals, dual seals, purged seals, monitoring and maintenance programs, controlled degassing vents | A                      |
|                                                            | II                  | "                                       | 1.4 (0.66 - 2.9)                    | NA                   |                                                                                                             |                        |
|                                                            |                     | "                                       | 15 (7.1 - 31)                       |                      |                                                                                                             |                        |
| Process drains <sup>d</sup>                                |                     | "                                       | 0.11 (0.05 - 0.23)                  | NA                   | Traps and covers                                                                                            | A                      |
|                                                            |                     | "                                       | 1.2 (0.5 - 2.5)                     |                      |                                                                                                             |                        |
|                                                            | I                   | "                                       | 0.070 (0.023 - 0.20)                | NA                   |                                                                                                             |                        |
| Pressure vessel relief valves (gas service) <sup>d,f</sup> |                     | "                                       | 0.76 (0.25 - 2.2)                   |                      | Rupture disks upstream of relief valves and/or venting to a flare                                           | A                      |
|                                                            | II                  | "                                       | 0.36 (0.10 - 1.3)                   | Negligible           |                                                                                                             |                        |
| Cooling towers                                             |                     | lb/10 <sup>6</sup> gal cooling water    | 6                                   | 0.70                 | Minimization of hydrocarbon leaks into cooling water system. Monitoring of cooling water for hydrocarbons   | D                      |
|                                                            |                     | kg/10 <sup>6</sup> liters cooling water | 0.7                                 | 0.083                |                                                                                                             |                        |
|                                                            |                     | lb/10 <sup>3</sup> bbl refinery feed    | 10                                  | 1.2                  |                                                                                                             |                        |
|                                                            |                     | kg/10 <sup>3</sup> liters refinery feed | 0.03                                | 0.004                |                                                                                                             |                        |
|                                                            |                     | lb/10 <sup>3</sup> gal wastewater       | 5                                   | 0.3                  |                                                                                                             |                        |
| Oil/water separators                                       |                     | kg/10 <sup>3</sup> liter waste water    | 0.6                                 | 0.024                | Covered separators and/or vapor recovery Systems                                                            | D                      |
|                                                            |                     | lb/10 <sup>3</sup> bbl refinery feed    | 200                                 | 10                   |                                                                                                             |                        |
|                                                            |                     | kg/10 <sup>3</sup> liters refinery feed | 0.6                                 | 0.03                 |                                                                                                             |                        |
|                                                            |                     | lb/10 <sup>3</sup> gal wastewater       | 5                                   | 0.3                  |                                                                                                             |                        |
| Storage                                                    | See Section 4.3     |                                         |                                     |                      |                                                                                                             |                        |
| Loading                                                    | See Section 4.4     |                                         |                                     |                      |                                                                                                             |                        |

USE MSDS-BID FACTORS  
0.93 (OPEN) or 0.03 (COVERED)

<sup>a</sup>Data from References 2, 4, 12 and 13 except as noted. Overall, less than 1% by weight of the total VOC emissions are methane.

NA = Not Available.

<sup>b</sup>The volatility and hydrogen content of the process streams have a substantial effect on the emission rate of some fugitive emission sources. The stream identification numerals and group names and descriptions are:

| Stream Identification Numeral | Stream Name                         | Stream Group Description                                                                                                                                                           |
|-------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I                             | All streams                         | All streams                                                                                                                                                                        |
| II                            | Gas streams                         | Hydrocarbon gas/vapor at process conditions (containing less than 50% hydrogen, by volume)                                                                                         |
| III                           | Light liquid and gas/liquid streams | Liquid or gas/liquid stream with a vapor pressure greater than that of kerosene (> 0.1 psia @ 100°F or 689 Pa @ 38°C), based on the most volatile class present at > 20% by volume |
| IV                            | Heavy liquid streams                | Liquid stream with a vapor pressure equal to or less than that of kerosene (≤ 0.1 psia @ 100°F or 689 Pa @ 38°C), based on the most volatile class present at > 20% by volume      |
| V                             | Hydrogen streams                    | Gas streams containing more than 50% hydrogen by volume                                                                                                                            |

<sup>c</sup>Numbers in parentheses are the upper and lower bounds of the 95% confidence interval for the emission factor.

<sup>d</sup>Data from Reference 17.

<sup>e</sup>The downstream side of these valves is open to the atmosphere. Emissions are through the valve seat of the closed valve.

<sup>f</sup>Emission factor for relief valves in gas service is for leakage, not for emissions caused by vessel pressure relief.

<sup>g</sup>Refinery rate is defined as the crude oil feed rate to the atmospheric distillation column.

The data for Table A-2 were extracted from "Report to Congress on the Discharge of Hazardous Waste to Publicly Owned Treatment Works", U.S. Environmental Protection Agency, EPA/530-SW-86-004, 1986. The following notes apply to this table:

- ° The data from this table apply only to secondary biological wastewater treatment plants receiving low concentrations ( $\approx$  500 ppb) of the compounds listed. A number of design and operational factors will affect the fate of these compounds in any given treatment plant. These numbers are useful only as rough approximations of pollutant fate.
- ° All percentages are based on influent loading. The original reference provided removals for volatilization and sludge partitioning as a percentage of overall removal. This data was translated to removals based on influent loading by assuming that all material not volatilized, transferred to sludge, or passed through untreated was biodegraded.
- °  $(\text{Percent volatilized to air}) + (\text{percent partitioned to sludge}) + (\text{percent biodegraded}) + (100 - \text{overall percent removal}) = 100.$
- ° Percent biodegraded was determined by difference in the preceding equation.
- ° The percentage which is discharged to receiving waters equals 100 minus the "overall percent removal" (percent discharged to receiving wastes =  $100 - \text{overall percent removal}$ ).
- °  $(\text{Percent volatilized to air}) + (\text{percent partitioned to sludge}) + (\text{percent biodegraded}) + (\text{percent discharged to receiving waters}) = 100.$
- ° "Acclimated" represents those processes which receive a relatively steady amount of the pollutant in question, such that biodegradation rates stabilize. "Unacclimated, Median and Low" refer to processes which receive unsteady or "slug" loadings of the pollutant in question.

| POLLUTANT                | OVERALL PERCENT REMOVAL |              |        | PERCENT VOLATILIZED TO AIR |              |        | PERCENT PARTITIONED TO SLUDGE |              |        | PERCENT BIODEGRADED |              |        |
|--------------------------|-------------------------|--------------|--------|----------------------------|--------------|--------|-------------------------------|--------------|--------|---------------------|--------------|--------|
|                          | ACCLIMATED              | UNACCLIMATED | IMATED | ACCLIMATED                 | UNACCLIMATED | IMATED | ACCLIMATED                    | UNACCLIMATED | IMATED | ACCLIMATED          | UNACCLIMATED | IMATED |
|                          | MEDIAN                  | LOW          | LOW    | MEDIAN                     | LOW          | LOW    | MEDIAN                        | LOW          | LOW    | MEDIAN              | LOW          | LOW    |
|                          | %                       | %            | %      | %                          | %            | %      | %                             | %            | %      | %                   | %            | %      |
| 2-CHLOROPHENOL           | 95                      | 65           | 60     | 0                          | 0            | 0      | 8                             | 5            | 5      | 87                  | 60           | 55     |
| CHROMIUM                 | 70                      | 70           | 70     | 0                          | 0            | 0      | 70                            | 70           | 70     | 0                   | 0            | 0      |
| CRESOLS                  | 95                      | 50           | 40     | 0                          | 0            | 0      | 8                             | 4            | 3      | 87                  | 46           | 37     |
| CUMENE                   | 95                      | 95           | 95     | 38                         | 57           | 57     | 4                             | 4            | 4      | 53                  | 34           | 34     |
| CYANIDE                  | 60                      | 60           | 60     | 0                          | 3            | 3      | 57                            | 57           | 57     | 3                   | 0            | 0      |
| CYCLOHEXANE              | 95                      | 95           | 95     | 10                         | 86           | 86     | 4                             | 4            | 4      | 82                  | 6            | 6      |
| DI-N-BUTYL PHTHALATE     | 90                      | 90           | 90     | 0                          | 0            | 0      | 20                            | 20           | 20     | 70                  | 70           | 70     |
| DI-N-OCTYL PHTHALATE     | 90                      | 90           | 90     | 0                          | 0            | 0      | 7                             | 7            | 7      | 83                  | 83           | 83     |
| DIBROMOMETHANE           | 85                      | 80           | 80     | 43                         | 64           | 64     | 13                            | 12           | 12     | 30                  | 4            | 4      |
| 1,2-DICHLOROBENZENE      | 90                      | 87           | 85     | 45                         | 78           | 77     | 32                            | 9            | 9      | 14                  | 0            | 0      |
| 1,3-DICHLOROBENZENE      | 90                      | 87           | 85     | 45                         | 78           | 77     | 3                             | 3            | 3      | 42                  | 6            | 6      |
| 1,4-DICHLOROBENZENE      | 90                      | 87           | 85     | 45                         | 78           | 77     | 23                            | 9            | 9      | 23                  | 0            | 0      |
| 1,2-DICHLOROETHANE       | 90                      | 60           | 30     | 45                         | 45           | 27     | 5                             | 3            | 2      | 41                  | 3            | 2      |
| 1,1-DICHLOROETHYLENE     | 95                      | 90           | 90     | 78                         | 81           | 81     | 0                             | 0            | 0      | 19                  | 9            | 9      |
| 2,4-DICHLOROPHENOL       | 95                      | 55           | 50     | 0                          | 0            | 0      | 8                             | 4            | 4      | 87                  | 51           | 46     |
| 1,2-DICHLOROPROPANE      | 90                      | 70           | 70     | 45                         | 63           | 63     | 0                             | 0            | 0      | 45                  | 7            | 7      |
| DICHLORVOS               | 90                      | 50           | 30     | 0                          | 0            | 0      | 9                             | 5            | 3      | 81                  | 45           | 27     |
| DICOFOL                  | 90                      | 90           | 90     | 45                         | 45           | 45     | 8                             | 8            | 8      | 37                  | 37           | 37     |
| DIETHYL PHTHALATE        | 90                      | 75           | 70     | 0                          | 0            | 0      | 1                             | 1            | 1      | 89                  | 74           | 69     |
| 3,3-DIMETHOXY BENZIDINE  | 80                      | 30           | 20     | 0                          | 0            | 0      | 8                             | 3            | 2      | 72                  | 27           | 18     |
| 2,4-DIMETHYL PHENOL      | 95                      | 85           | 80     | 0                          | 0            | 0      | 8                             | 7            | 6      | 87                  | 78           | 74     |
| DIMETHYL PHTHALATE       | 95                      | 65           | 60     | 0                          | 0            | 0      | 0                             | 0            | 0      | 95                  | 65           | 60     |
| 2,4-DINITROPHENOL        | 90                      | 75           | 70     | 0                          | 0            | 0      | 9                             | 8            | 7      | 81                  | 68           | 63     |
| 1,4-DIOXANE              | 90                      | 50           | 40     | 0                          | 0            | 0      | 9                             | 5            | 4      | 81                  | 45           | 36     |
| EPICHLOROHYDRIN          | 87                      | 59           | 25     | 0                          | 0            | 0      | 9                             | 6            | 3      | 78                  | 53           | 23     |
| ETHYL BENZENE            | 95                      | 90           | 90     | 24                         | 72           | 72     | 6                             | 5            | 5      | 66                  | 13           | 13     |
| ETHYLENE OXIDE           | 90                      | 50           | 40     | 0                          | 3            | 2      | 9                             | 5            | 4      | 81                  | 43           | 34     |
| ETHYLENE THIOUREA        | 85                      | 67           | 60     | 0                          | 0            | 0      | 9                             | 7            | 6      | 77                  | 60           | 54     |
| FORMALDEHYDE             | 85                      | 85           | 80     | 0                          | 4            | 4      | 9                             | 9            | 8      | 76                  | 72           | 68     |
| HEXACHLORO-1,3-BUTADIENE | 95                      | 90           | 90     | 0                          | 5            | 5      | 9                             | 8            | 8      | 86                  | 77           | 77     |
| HEXACHLOROETHANE         | 95                      | 90           | 90     | 0                          | 5            | 5      | 9                             | 8            | 8      | 86                  | 77           | 77     |
| HYDRAZINE                | 95                      | 85           | 80     | 0                          | 4            | 4      | 10                            | 9            | 8      | 85                  | 72           | 68     |

(continued)

TABLE A-2 (continued)

| POLLUTANT                  | OVERALL    |              |        | PERCENT     |              |            | PERCENT      |            |              |            |              |        |
|----------------------------|------------|--------------|--------|-------------|--------------|------------|--------------|------------|--------------|------------|--------------|--------|
|                            | PERCENT    |              |        | VOLATILIZED |              |            | PARTITIONED  |            |              | PERCENT    |              |        |
|                            | REMOVAL    |              |        | TO AIR      |              |            | TO SLUDGE    |            |              | BIOGRADED  |              |        |
|                            | ACCLIMATED | UNACCLIMATED | IMATED | ACCLIMATED  | UNACCLIMATED | ACCLIMATED | UNACCLIMATED | ACCLIMATED | UNACCLIMATED | ACCLIMATED | UNACCLIMATED | IMATED |
|                            | MEDIAN     | LOW          |        | MEDIAN      | LOW          |            | MEDIAN       | LOW        |              | MEDIAN     | LOW          |        |
|                            | %          | %            | %      | %           | %            | %          | %            | %          | %            | %          | %            | %      |
| TRANS-1,2-DICHLOROETHYLENE | 90         | 80           | 80     | 63          | 72           | 72         | 27           | 8          | 8            | 0          | 0            | 0      |
| TRIBROMOMETHANE            | 85         | 35           | 30     | 38          | 21           | 18         | 5            | 3          | 2            | 24         | 11           | 10     |
| 1,2,4-TRICHLOROBENZENE     | 85         | 85           | 85     | 43          | 51           | 51         | 8            | 8          | 8            | 35         | 26           | 26     |
| 1,1,1-TRICHLOROETHANE      | 95         | 90           | 85     | 78          | 81           | 77         | 1            | 1          | 1            | 18         | 8            | 8      |
| 1,1,2-TRICHLOROETHANE      | 80         | 25           | 20     | 40          | 20           | 18         | 0            | 0          | 0            | 40         | 5            | 4      |
| TRICHLOROETHYLENE          | 95         | 87           | 85     | 67          | 70           | 68         | 6            | 5          | 5            | 23         | 12           | 12     |
| 2,4,6-TRICHLOROPHENOL      | 95         | 55           | 50     | 0           | 0            | 0          | 8            | 4          | 4            | 87         | 51           | 46     |
| 1,1,2-TC 1,2,2-TF ETHANE   | 90         | 85           | 80     | 63          | 68           | 64         | 4            | 3          | 3            | 23         | 14           | 13     |
| TRIFLURALIN                | 90         | 90           | 90     | 0           | 0            | 0          | 33           | 33         | 33           | 57         | 57           | 57     |
| VINYL CHLORIDE             | 95         | 95           | 95     | 88          | 90           | 90         | 2            | 2          | 2            | 8          | 3            | 3      |
| XYLENES                    | 95         | 87           | 85     | 24          | 70           | 68         | 14           | 13         | 13           | 57         | 4            | 4      |

# VAPOR PRESSURE DATA

|              | TEMP. (F) | TEMP. (K) | Pv (mm Hg) | PV (psia) |
|--------------|-----------|-----------|------------|-----------|
| BENZENE      | 70        | 294.27    | 79.1247    | 1.5304    |
| TOLUENE      | 70        | 294.27    | 23.0673    | 0.4462    |
| ETHYLBENZENE | 70        | 294.27    | 7.5474     | 0.1460    |
| XYLENE       | 70        | 294.27    | 6.5498     | 0.1267    |
| CYCLOHEXANE  | 70        | 294.27    | 81.7580    | 1.5814    |
| CUMENE       | 70        | 294.27    | 3.5597     | 0.0689    |
| PHENOL       | 70        | 294.27    | 0.1530     | 0.0030    |
| NAPHTHALENE  | 70        | 294.27    | 0.1691     | 0.0033    |
| STYRENE      | 70        | 294.27    | 5.1922     | 0.1004    |

SAL 000004046

TABLE 4.3-2. PHYSICAL PROPERTIES OF TYPICAL ORGANIC LIQUIDS<sup>a</sup>

| Organic liquid <sup>b</sup>    | Vapor<br>molecular<br>weight<br>@ 60°F | Product<br>density (d),<br>lb/gal<br>@ 60°F | Condensed<br>vapor<br>density (w),<br>lb/gal<br>@ 60°F | True vapor pressure in psia at: |         |         |         |         |         |         |
|--------------------------------|----------------------------------------|---------------------------------------------|--------------------------------------------------------|---------------------------------|---------|---------|---------|---------|---------|---------|
|                                |                                        |                                             |                                                        | 40°F                            | 50°F    | 60°F    | 70°F    | 80°F    | 90°F    | 100°F   |
| Petroleum Liquids <sup>c</sup> |                                        |                                             |                                                        |                                 |         |         |         |         |         |         |
| Gasoline RVP 13                | 62                                     | 5.6                                         | 4.9                                                    | 4.7                             | 5.7     | 6.9     | 8.3     | 9.9     | 11.7    | 13.8    |
| Gasoline RVP 10                | 66                                     | 5.6                                         | 5.1                                                    | 3.4                             | 4.2     | 5.2     | 6.2     | 7.4     | 8.8     | 10.5    |
| Gasoline RVP 7                 | 68                                     | 5.6                                         | 5.2                                                    | 2.3                             | 2.9     | 3.5     | 4.3     | 5.2     | 6.2     | 7.4     |
| Crude oil RVP 5                | 50                                     | 7.1                                         | 4.5                                                    | 1.8                             | 2.3     | 2.8     | 3.4     | 4.0     | 4.8     | 5.7     |
| Jet naphtha (JP-4)             | 80                                     | 6.4                                         | 5.4                                                    | 0.8                             | 1.0     | 1.3     | 1.6     | 1.9     | 2.4     | 2.7     |
| Jet kerosene                   | 130                                    | 7.0                                         | 6.1                                                    | 0.0041                          | 0.0060  | 0.0085  | 0.011   | 0.015   | 0.021   | 0.029   |
| Distillate fuel no. 2          | 130                                    | 7.1                                         | 6.1                                                    | 0.0031                          | 0.0045  | 0.0074  | 0.0090  | 0.012   | 0.016   | 0.022   |
| Residual oil no. 6             | 190                                    | 7.9                                         | 6.4                                                    | 0.00002                         | 0.00003 | 0.00004 | 0.00006 | 0.00009 | 0.00013 | 0.00019 |
| Volatile Organic Liquids       |                                        |                                             |                                                        |                                 |         |         |         |         |         |         |
| Acetone                        | 58                                     | 6.6                                         | 6.6                                                    | 1.7                             | 2.2     | 2.9     | 3.7     | 4.7     | 5.9     | 7.3     |
| Acrylonitrile                  | 53                                     | 6.8                                         | 6.8                                                    | 0.8                             | 1.0     | 1.4     | 1.8     | 2.4     | 3.1     | 4.0     |
| Benzene                        | 78                                     | 7.4                                         | 7.4                                                    | 0.6                             | 0.9     | 1.2     | 1.5     | 2.0     | 2.6     | 3.3     |
| Carbon disulfide               | 76                                     | 10.6                                        | 10.6                                                   | 3.0                             | 3.9     | 4.8     | 6.0     | 7.4     | 9.2     | 11.2    |
| Carbon tetrachloride           | 154                                    | 13.4                                        | 13.4                                                   | 0.8                             | 1.1     | 1.4     | 1.8     | 2.3     | 3.0     | 3.8     |
| Chloroform                     | 119                                    | 12.5                                        | 12.5                                                   | 1.5                             | 1.9     | 2.5     | 3.2     | 4.1     | 5.2     | 6.3     |
| Cyclohexane                    | 84                                     | 6.5                                         | 6.5                                                    | 0.7                             | 0.9     | 1.2     | 1.6     | 2.1     | 2.6     | 3.2     |
| 1,2-Dichloroethane             | 99                                     | 10.5                                        | 10.5                                                   | 0.6                             | 0.8     | 1.0     | 1.4     | 1.7     | 2.2     | 2.8     |
| Ethylacetate                   | 88                                     | 7.6                                         | 7.6                                                    | 0.6                             | 0.8     | 1.1     | 1.5     | 1.9     | 2.5     | 3.2     |
| Ethyl alcohol                  | 46                                     | 6.6                                         | 6.6                                                    | 0.2                             | 0.4     | 0.6     | 0.9     | 1.2     | 1.7     | 2.3     |
| Isopropyl alcohol              | 60                                     | 6.6                                         | 6.6                                                    | 0.2                             | 0.3     | 0.6     | 0.7     | 0.9     | 1.3     | 1.8     |
| Methyl alcohol                 | 32                                     | 6.6                                         | 6.6                                                    | 0.7                             | 1.0     | 1.4     | 2.0     | 2.6     | 3.5     | 4.5     |
| Methylene chloride             | 85                                     | 11.1                                        | 11.1                                                   | 3.1                             | 4.3     | 5.4     | 6.8     | 8.7     | 10.3    | 13.3    |
| Methylethyl ketone             | 72                                     | 6.7                                         | 6.7                                                    | 0.7                             | 0.9     | 1.2     | 1.5     | 2.1     | 2.7     | 3.3     |
| Methylmethacrylate             | 100                                    | 7.9                                         | 7.9                                                    | 0.1                             | 0.2     | 0.3     | 0.6     | 0.8     | 1.1     | 1.4     |
| 1,1,1-Trichloroethane          | 133                                    | 11.2                                        | 11.2                                                   | 0.9                             | 1.2     | 1.6     | 2.0     | 2.6     | 3.3     | 4.2     |
| Trichloroethylene              | 131                                    | 12.3                                        | 12.3                                                   | 0.5                             | 0.7     | 0.9     | 1.2     | 1.5     | 2.0     | 2.0     |
| Toluene                        | 92                                     | 7.3                                         | 7.3                                                    | 0.2                             | 0.2     | 0.3     | 0.4     | 0.6     | 0.8     | 1.0     |
| Vinylacetate                   | 86                                     | 7.8                                         | 7.8                                                    | 0.7                             | 1.0     | 1.3     | 1.7     | 2.3     | 3.1     | 4.0     |

<sup>a</sup>References 3-4.<sup>b</sup>For a more comprehensive listing of volatile organic liquids, see Reference 3.<sup>c</sup>RVP = Reid vapor pressure in psia.

## APPENDIX C

### 1989 OPERATING EXPENSE AND YIELD DATA

(BLUE BOOK)

SARA TITLE III, SECTION 313

1990 TOXIC CHEMICAL RELEASE INVENTORY

LAKE CHARLES REFINERY

SAL 000004049

## CRUDE OIL TRANSFERS TO REFINING

|                                  |         |         |        | ACTUAL DEC 1990 MIS |            |                           |                    |         |          |        |           |
|----------------------------------|---------|---------|--------|---------------------|------------|---------------------------|--------------------|---------|----------|--------|-----------|
|                                  |         |         |        | PRIOR PERIOD (M\$)  |            | MONTHLY GRAND TOTAL (M\$) | YEAR TO DATE TOTAL |         |          |        |           |
| LAKE CHARLES                     | BPD     | MBBLS   | \$/BBL | CRUDE COST (M\$)    |            | \$/BBL                    |                    | BPD     | MBBLS    | \$/BBL | (M\$)     |
| DIRECT                           |         |         |        |                     |            |                           |                    |         |          |        |           |
| CPL                              | 18,170  | 563.3   | 26.63  | 15,000.20           |            | 26.63                     | 15,000.2           | 9,049   | 3,303.0  | 25.23  | 83,345    |
| Barge                            | 27,219  | 843.8   | 26.69  | 22,520.70           |            | 26.69                     | 22,520.7           | 20,157  | 7,357.3  | 24.21  | 178,130   |
| Texaco P/L                       | 10,717  | 332.2   | 26.54  | 8,817.00            |            | 26.54                     | 8,817.0            | 14,276  | 5,210.7  | 25.10  | 130,795   |
| Condensate                       | 3,345   | 103.7   | 27.08  | 2,808.30            |            | 27.08                     | 2,808.3            | 908     | 331.4    | 28.27  | 9,367     |
| Spot/Incremental System/Priors   | 1,041   | 32.3    | 32.20  | 1,039.50            |            | 32.20                     | 1,039.5            | 11,210  | 4,091.6  | 21.45  | 87,759    |
|                                  |         |         | .52    | 976.93              | ( 153)     | .44                       | 824.1              |         |          | .59    | 11,950    |
| TOTAL SWEET                      | 60,492  | 1,875.3 | 27.28  | 51,162.6            | ( 152.8)   | 27.20                     | 51,009.8           | 55,600  | 20,294.0 | 24.70  | 501,346   |
| * Maya                           | 31,547  | 978.0   | 20.67  | 20,214.40           |            | 20.67                     | 20,214.4           | 35,034  | 12,787.4 | 17.75  | 226,958   |
| • Furril                         |         |         |        |                     |            |                           |                    | 2,920   | 1,066.0  | 17.87  | 19,050    |
| • Merey                          | 50,375  | 1,561.6 | 16.41  | 25,626.40           |            | 16.41                     | 25,626.4           | 36,959  | 13,490.1 | 17.27  | 232,974   |
| • Pilon                          |         |         |        |                     |            |                           |                    | 2,623   | 957.4    | 15.00  | 14,363    |
| • Brent                          |         |         |        |                     |            |                           |                    |         |          |        |           |
| • Oriente                        |         |         |        |                     |            |                           |                    |         |          |        |           |
| • Mesa 30                        |         |         |        |                     |            |                           |                    | 1,090   | 398.0    | 20.26  | 8,063     |
| • West Coast Light Sr            | 7,113   | 220.5   | 28.28  | 6,235.70            |            | 28.28                     | 6,235.7            | 2,857   | 1,042.7  | 23.60  | 24,609    |
| • BCF 22                         | 25,457  | 789.2   | 20.17  | 15,917.70           |            | 20.17                     | 15,917.7           | 14,247  | 5,200.2  | 20.26  | 105,375   |
| • Reserved                       |         |         |        |                     |            |                           |                    | 1,472   | 537.3    | 18.36  | 9,865     |
| • ANS                            |         |         |        |                     |            |                           |                    | 4,807   | 1,754.6  | 16.37  | 28,724    |
| • Resid E4                       |         |         |        |                     |            |                           |                    |         |          |        |           |
| • Reserved                       |         |         |        |                     |            |                           |                    |         |          |        |           |
| • Spot/Incremental System/Priors |         |         | .32    | 1,144.28            | ( 289)     | .24                       | 855.1              |         |          | .23    | 8,547     |
| CRUDE SOUR                       | 114,492 | 3,549.3 | 19.48  | 69,138.5            | ( 289.2)   | 19.40                     | 68,849.3           | 102,010 | 37,233.5 | 18.22  | 678,527   |
| CUTTERSTOCK DIR                  | 3,999   | 124.0   | 25.11  | 3,112.70            |            | 25.11                     | 3,112.7            | 2,179   | 795.5    | 25.68  | 20,429    |
| TOTAL SOUR/CUTTER                | 118,491 | 3,673.2 | 19.67  | 72,251.2            | ( 289.2)   | 19.59                     | 71,962.0           | 104,189 | 38,029.0 | 18.38  | 698,956   |
| TOTAL DIRECT                     | 178,984 | 5,548.5 | 22.24  | 123,413.8           | ( 441.9)   | 22.16                     | 122,971.9          | 159,789 | 58,323.0 | 20.58  | 1,200,302 |
| LESS CUTTER DIRECT               | 3,999   | 124.0   | 25.11  | 3,112.7             |            | 25.11                     | 3,112.7            | 2,179   | 795.5    | 25.68  | 20,429    |
| CRUDE DIRECT                     | 174,985 | 5,424.5 | 22.18  | 120,301.1           | ( 441.9)   | 22.10                     | 119,859.2          | 157,610 | 57,527.5 | 20.51  | 1,179,873 |
| LIFO                             |         |         | ( .13) | ( 716.71)           | (2,661.91) | ( .61)                    | ( 3,378.6)         |         |          | .13    | 7,538     |
| TOTAL LAKE CHARLES               | 178,984 | 5,548.5 | 22.11  | 122,697.1           | ( 3,103.9) | 21.55                     | 119,593.2          | 159,789 | 58,323.0 | 20.71  | 1,207,840 |

\* INDICATES SOUR CRUDE

REPORT NO. 08-0512  
 JOB NO 6658  
 PROGRAM NO. A7632

LAKE CHARLES RFY

PAGE 13  
 RUN DATE 01/28/91

PROCESSING SUPPLIES - OTHER DETAIL - SCHEDULE C  
 (IN THOUSANDS)

| ITEM-FTR-----           | DESCRIPTION -----             | ----- MONTH ----- |                  | CUMULATIVE TO DATE ----- |                  | -1990 CUMULATIVE-  |         |
|-------------------------|-------------------------------|-------------------|------------------|--------------------------|------------------|--------------------|---------|
|                         |                               | DECEMBER 1990     | PROFIT OBJ 1990  | ACTUAL 1990              | ACTUAL 1989      | ACT OVER (UNDER) P |         |
|                         |                               | QUANTITY DOLLARS  | QUANTITY DOLLARS | QUANTITY DOLLARS         | QUANTITY DOLLARS | QUANTITY DOLLARS   |         |
| PROC SUPP-NONCLASSIFIED |                               |                   |                  |                          |                  |                    |         |
| 006 1116                | CATALYST FCC SP LBS           |                   |                  |                          | 13.2-            |                    |         |
| 006 1109                | CATALYST-DESULF SPENT LBS     |                   |                  | 209.8                    | 47.7             | 209.8              |         |
| 006 1113                | CATALYST-FCC SPENT LBS        | 6.3               |                  | 33.1                     | 97.0             | 33.1               |         |
| 006 0151                | CATALYST-MEROX LBS            |                   |                  | .1                       | 1.7              | .1                 | 6.1     |
| 006 0015                | CATALYST-POLY LBS             | 17.6              | 32.2             | 224.0                    | 410.8            | 224.0              | 410.8   |
| 006 0115                | CATALYST-PLATINUM LBS         |                   |                  | 1.0                      | 86.2             | 1.0                | 86.2    |
| 006 1115                | CATALYST-PLATINUM SPENT LBS   |                   |                  |                          | 137.4            |                    | 137.4   |
| 006 0133                | CATALYST-RHENIFORMING LBS     |                   |                  |                          | 13.0             |                    | 75.0    |
| 006 1133                | CATALYST-RHENIFORM SPT LBS    |                   |                  |                          | 32.2             |                    | 32.2    |
| 006 0028                | CATALYST-SULPHUR LBS          |                   |                  | 126.8                    | 186.1            | 126.8              | 186.1   |
| 006 0217                | CATALYST-VANADIUM LBS         |                   |                  |                          | 22.0             |                    | 43.4    |
| 006 0577                | CATALYST, AMBERL LBS          |                   |                  | 57.4                     |                  |                    | 57.4    |
| 006 0041                | CAUSTIC POTASH LIQUID LBS     |                   |                  |                          | 1.9              |                    |         |
| 006 0009                | CAUSTIC SODA-MERC CELL LBS    | 156.3             | 28.4             | 2,295.3                  | 396.2            | 2,295.3            | 396.2   |
| 006 0010                | CAUSTIC SODA LIQ LBS          | 557.1             | 77.2             | 7,178.1                  | 903.3            | 7,178.1            | 903.3   |
| 006 1010                | CAUSTIC SODA-SPENT LBS        | 337.6             | 25.2             | 1,904.5                  | 58.3             | 1,904.5            | 58.3    |
| 006 0389                | CERAMIC BALLS LBS             |                   |                  | 166.5                    | 93.6             | 166.5              | 93.6    |
| 006 0393                | CERAMIC PELLETS AGGREGATE LBS |                   |                  | 11.3                     | 5.4              | 11.3               | 5.4     |
| 006 0190                | CHEMLINK IPC 5120 LBS         |                   |                  | 1.4                      | 2.3              | 1.4                | 2.3     |
| 006 0032                | CHLORINE LBS                  |                   |                  | 88.0                     | 17.9             | 88.0               | 17.9    |
| 006 0007                | CLAY-ATTAPULGUS 16/30 LBS     |                   |                  |                          | 148.5            |                    | 12.5    |
| 006 0365                | COP 850 PROMOTER LBS          | .4                | 8.6              | 3.0                      | 60.0             | 3.0                | 60.0    |
| 006 0289                | DIMETHYL SULFIDE LBS          |                   |                  | 26.6                     | 58.6             | 26.6               | 58.6    |
| 006 0067                | DUNNAGE MATERIAL LBS          |                   |                  |                          | 1.8              |                    | 3.1     |
| 006 0520                | DUPONT DCI-6A GAL             | 4.2               | 3.3              | 39.3                     | 30.0             | 39.3               | 30.0    |
| 006 0294                | DUPONT AO 23 LBS              |                   | .1               | 106.3                    | 223.4            | 106.3              | 223.4   |
| 006 0478                | DUPONT DCI-6 LBS              |                   |                  | 56.4                     | 42.0             | 56.4               | 42.0    |
| 006 0093                | DUPONT DMD-2 LBS              | .1                | .4               | 19.5                     | 77.5             | 19.5               | 77.5    |
| 006 0149                | DUPONT FOA 11 LBS             | 8.4               | 16.5             | 90.3                     | 172.7            | 90.3               | 172.7   |
| 006 0058                | DYE - BRONZE REG GAS LBS      |                   |                  | .7-                      | 3.8-             | .7-                | 3.8     |
| 006 0059                | DYE - RED PREM GAS LBS        |                   |                  | 2.9                      | 14.2             | 2.9                | 14.2    |
| 006 0559                | ELCO 231 LBS                  |                   |                  | 9.2                      | 14.1             | 9.2                | 14.1    |
| 006 0586                | ELCO 461 LBS                  |                   | .8               | 1.0                      | 21.3             | 1.0                | 21.3    |
| 006 0401                | ENJAY PARADYNE 25 LBS         |                   |                  | 16.9                     | 14.2             | 16.9               | 14.2    |
| 006 0580                | BETZ 3F2A GALS                |                   | 1.2              | 1.0                      | 23.2             | 1.0                | 23.2    |
| 006 0087                | FCC CATALYST HEZ 55 LBS       | 116.1             | 92.9             | 1,959.8                  | 1,541.8          | 1,959.8            | 1,541.8 |
| 006 0139                | FILTER MATERIALS (MISC) LBS   |                   |                  | 305.1                    | 31.5             | 305.1              | 31.5    |
| 006 0397                | FILTREN SUPPORT MEDIA LBS     |                   |                  | 47.9                     | 4.8              | 47.9               | 4.8     |
| 006 0359                | GYCERINE GAL                  |                   |                  | .6                       | .5               | .6                 | .5      |
| 006 0070                | HALDOR TK10 LBS               |                   |                  | 39.3                     | 197.1            | 39.3               | 197.1   |
| 006 0212                | HYDRO TREATING CATALYST LBS   |                   |                  | 528.0                    | 1,279.4          | 528.0              | 1,279.4 |
| 006 0211                | HYDROCHLORIC ACID LBS         | 330.4             | 9.5              | 5,264.3                  | 122.1            | 5,264.3            | 122.1   |
| 006 0141                | HYDROGEN PEROXIDE LBS         |                   |                  |                          | 1.0              |                    |         |
| 006 0138                | HYDROGEN, ELECTRO CU-FT       |                   |                  | 132.6                    | 4.0              | 132.6              | 4.0     |

SAL 000004051

PROCESSING SUPPLIES - OTHER DETAIL - SCHEDULE C  
 (IN THOUSANDS)

| ITEM-FTR                | DESCRIPTION                | ----- MONTH ----- |                  | CUMULATIVE TO DATE ----- |                  |                  |       | -1990 CUMULATIVE- |                  |
|-------------------------|----------------------------|-------------------|------------------|--------------------------|------------------|------------------|-------|-------------------|------------------|
|                         |                            | DECEMBER 1990     | PROFIT OBJ 1990  | ACTUAL 1990              | ACTUAL 1989      | ACT OVER (UNDER) |       | QUANTITY DOLLARS  | QUANTITY DOLLARS |
|                         |                            | QUANTITY DOLLARS  | QUANTITY DOLLARS | QUANTITY DOLLARS         | QUANTITY DOLLARS |                  |       |                   |                  |
| PROC SUPP-NONCLASSIFIED |                            |                   |                  |                          |                  |                  |       |                   |                  |
| 006 0474                | KAISER A-201 ACT ALUMINA   | .4                |                  | .4                       | 45.8             | 30.7             |       | .4                |                  |
| 006 0300                | K602 LBS                   |                   |                  | 4.3                      | 7.9              | 11.9             | 21.1  | 4.3               | 7.9              |
| 006 0136                | METHANOL GALS              |                   |                  | .5                       | .4               | .7               | .7    | .5                | .4               |
| 006 0387                | MOLECULAR SEIVES LBS       |                   |                  | 22.8                     | 27.7             | 49.7             | 76.4  | 22.8              | 27.7             |
| 006 0454                | MORPHOLINE LBS             |                   |                  | 18.9                     | 20.8             | 21.6             | 23.0  | 18.9              | 20.8             |
| 006 0604                | NALCO #5002                |                   |                  | 1.9                      | 2.4              |                  |       | 1.9               | 2.4              |
| 006 0611                | NALCO #5005 LBS            |                   |                  | 2.4                      | 4.4              |                  |       | 2.4               | 4.4              |
| 006 0337                | NALCO 1214 LBS             |                   |                  |                          |                  | 2.3-             |       |                   |                  |
| 006 0524                | NALCO 1701 GALS            | 1.2               | 2.5              | 15.2                     | 27.9             | 14.6             | 26.1  | 15.2              | 27.9             |
| 006 0357                | NALCO 1800 LBS             | 1.4               | 3.6              | 35.7                     | 86.5             | 11.9             | 28.5  | 35.7              | 86.5             |
| 006 0223                | NALCO 19 LBS               |                   |                  | 4.0                      | 3.7              | .3               | .3    | 4.0               | 3.7              |
| 006 0193                | NALCO 2RB431 LBS           | 4.6               | 8.4              | 22.1                     | 39.2             | 1.4              | 2.2   | 22.1              | 39.2             |
| 006 0244                | NALCO 356 LBS              |                   |                  |                          |                  | 34.2             | 67.8  |                   |                  |
| 006 0280                | NALCO 5163 GALS            | .8                | 1.1              | 15.0                     | 21.0             | 18.7             | 24.7  | 15.0              | 21.0             |
| 006 0231                | NALCO 5166 LBS             |                   |                  | 4.8                      | 13.7             | 18.0             | 49.7  | 4.8               | 13.7             |
| 006 0493                | NALCO 5196                 | .6                | 1.0              | .9                       | 1.6              | 7.2              | 11.8  | .9                | 1.6              |
| 006 0573                | NALCO 5209                 |                   |                  | .8                       | 2.6              |                  |       | .8                | 2.6              |
| 006 0587                | NALCO 5270 LBS             |                   |                  | 12.1                     | 33.6             |                  |       | 12.1              | 33.6             |
| 006 0347                | NALCO 5375 LBS             |                   |                  |                          |                  | 72.5             | 64.5  |                   |                  |
| 006 0561                | NALCO 5546 LBS             | 5.7               | 8.9              | 14.0                     | 22.2             |                  |       | 14.0              | 22.2             |
| 006 0358                | NALCO 5547 LBS             |                   |                  | 30.5                     | 44.4             |                  |       | 30.5              | 44.4             |
| 006 0322                | NALCO 5701 LBS             |                   |                  | 5.1                      | 6.8              | .5               | .7    | 5.1               | 6.8              |
| 006 0555                | NALCO 5707 GAL             | 1.8               | 4.3              | 5.0                      | 12.0             |                  |       | 5.0               | 12.0             |
| 006 0507                | NALCO 7200 LBS             |                   |                  |                          |                  | 4.6              | 7.0   |                   |                  |
| 006 0458                | NALCO 7205                 | 2.2               | 3.2              | 33.3                     | 47.3             | 21.5             | 29.7  | 33.3              | 47.3             |
| 006 0455                | NALCO 7356 LBS             |                   |                  |                          |                  | 1.6              | 1.0   |                   |                  |
| 006 0265                | NALCO 8263 LBS             |                   |                  | 143.1                    | 96.7             | 443.2            | 301.4 | 143.1             | 96.7             |
| 006 0354                | NALCO 85RB253              |                   |                  |                          |                  | 2.2              | 5.1   |                   |                  |
| 006 0591                | NALCO 89RB068 LBS          | .9                | 2.5              | 7.1                      | 19.6             |                  |       | 7.1               | 19.6             |
| 006 0137                | NITROGEN CU FT             | 68.4              | 70.1             | 869.4                    | 1,179.2          | 654.0            | 668.0 | 869.4             | 1,179.2          |
| 006 0327                | NITROGEN CYLINDERS         |                   |                  | .1                       | .4               | .2               | .5    | .1                | .4               |
| 006 0685                | OXYGEN LBS                 | 2.3               | 106.6            | 15.9                     | 731.2            | 13.0             | 590.1 | 15.9              | 731.2            |
| 006 0705                | OXYGEN P/L FEE LBS         |                   | 8.6              |                          | 51.3             |                  | 51.3  |                   | 51.3             |
| 006 0574                | PETROTEC 7200              |                   |                  | 2.8                      | 3.8              |                  |       | 2.8               | 3.8              |
| 006 0013                | PLATINUM TR OZ             |                   |                  |                          | 74.1             |                  |       |                   | 74.1             |
| 006 0463                | SAG GT-715 ANTIFOAM LBS    |                   |                  |                          |                  | .1               | 1.0   |                   |                  |
| 006 0703                | SHELL CATALYST HPS 544LBS  |                   |                  | 10.3                     | 21.7             |                  |       | 10.3              | 21.7             |
| 006 0503                | SHELL 514 1/3" SPHERE LBS  |                   |                  | 7.0                      | 15.2             | 6.5              | 15.5  | 7.0               | 15.2             |
| 006 0392                | SILICA GEL LBS             |                   |                  | 1.8                      | 2.7              | 3.4              | 5.3   | 1.8               | 2.7              |
| 006 0024                | SODA ASH LBS               |                   |                  | 7.3                      | .9               | 8.1              | 1.0   | 7.3               | .9               |
| 006 0053                | SODIUM CHLORIDE (SALT) LBS | 124.8             | 1.8              | 1,533.7                  | 20.4             | 1,144.3          | 14.5  | 1,533.7           | 20.4             |
| 006 0459                | SODIUM HYPOCHLORITE LBS    | 1.1               | .3               | 6.6                      | 1.0              | 66.9             | 3.4   | 6.6               | 1.0              |
| 006 0018                | SODIUM-MONOSODIUM PHOS LBS | 36.1              | 18.4             | 456.5                    | 234.0            | 684.7            | 385.4 | 456.5             | 234.0            |
| 006 0022                | SULPHUR DIOXIDE LBS        |                   |                  | 2.0                      | .7               | 2.2              | 1.3   | 2.0               | .7               |

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PROCESSING SUPPLIES - OTHER DETAIL - SCHEDULE C  
 (IN THOUSANDS)

| ITEM-FTR-----                   | DESCRIPTION              | ----- MONTH ----- |                  | ----- CUMULATIVE TO DATE ----- |                  | -----              |                    | -1990 CUMULATIVE-  |                    |
|---------------------------------|--------------------------|-------------------|------------------|--------------------------------|------------------|--------------------|--------------------|--------------------|--------------------|
|                                 |                          | DECEMBER 1990     | PROFIT OBJ 1990  | ACTUAL 1990                    | ACTUAL 1989      | ACT OVER (UNDER) P | ACT OVER (UNDER) P | ACT OVER (UNDER) P | ACT OVER (UNDER) P |
| ITH-FTR-----                    | DESCRIPTION              | QUANTITY DOLLARS  | QUANTITY DOLLARS | QUANTITY DOLLARS               | QUANTITY DOLLARS | QUANTITY DOLLARS   | QUANTITY DOLLARS   | QUANTITY DOLLARS   | QUANTITY DOLLARS   |
| PROC SUPP-NONCLASSIFIED         |                          |                   |                  |                                |                  |                    |                    |                    |                    |
| 006 1153                        | SULPHUR SORBER CAT LBS   |                   |                  | 6.9                            |                  |                    | 6.9                |                    |                    |
| 006 0746                        | TNPS LBS                 |                   |                  | .3                             | .5               |                    | .3                 | .5                 |                    |
| 006 0602                        | TRET-O-LITE K437 GALS    | 1.5-              | 1.9-             | 45.5                           | 73.5             | 42.3               | 49.5               | 45.5               | 73.5               |
| 006 0613                        | TRET-O-LITE K450 GAL     |                   |                  | 31.4                           | 51.1             | 38.6               | 59.8               | 31.4               | 51.1               |
| 006 0721                        | TRET-O-LITE D-0110       |                   |                  |                                |                  | 2.8                | 6.2                |                    |                    |
| 006 0457                        | TRETOLITE PET-7330       |                   |                  |                                |                  | 1.8                | 2.2                |                    |                    |
| 006 0539                        | TRETOLITE PET 1940 LBS   | 1.9               | 7.7              | 73.9                           | 302.5            | 5.4                | 20.6               | 73.9               | 302.5              |
| 006 0617                        | TRETOLITE K-456 LBS      |                   |                  |                                |                  | 7.8                | 11.1               |                    |                    |
| 6 702                           | TRETOLITE DS 4056 GAL    |                   |                  | 16.4                           | 19.7             | 39.3               | 45.6               | 16.4               | 19.7               |
| 006 0712                        | TRETOLITE PET40000       | .5                | 1.0              | 26.7                           | 60.7             | 29.5               | 64.2               | 26.7               | 60.7               |
| 006 0718                        | TRETOLITE 4010 GAL       |                   |                  |                                |                  | 3.6                | 6.5                |                    |                    |
| 006 0046                        | TRIETHYLENEGLYCOL        | 18.3              | 10.9             | 104.7                          | 66.2             | 167.4              | 119.2              | 104.7              | 66.2               |
| 006 0569                        | VCARSOL-MOEA LBS         | 131.2             | 194.0            | 1,071.2                        | 1,569.3          | 1,046.3            | 1,376.7            | 1,071.2            | 1,569.3            |
| 006 0106                        | VAN DRI-O-LITE LBS       |                   |                  | .6                             | .4               | .5                 | .3                 | .6                 | .4                 |
| 006 0579                        | WEL CHEM H9290-9 GALS    |                   |                  | 5.0                            | 9.8              |                    |                    | 5.0                | 9.8                |
| 006 0071                        | 4H3-PROCHEM              | .2                | 2.4              | 3.9                            | 42.6             | 2.6                | 26.4               | 3.9                | 42.6               |
| 006 0073                        | 5K10 PHILMPULUS          | .1                | .6               | 1.0                            | 8.8              | .9                 | 7.5                | 1.0                | 8.8                |
| TOTAL PROC SUPP-NONCLASSIFIED   |                          | 1,335.3           |                  | 15,740.8                       |                  | 14,245.1           |                    | 15,740.8           |                    |
| PROC SUPP-CORR INH (PROC)       |                          |                   |                  |                                |                  |                    |                    |                    |                    |
| 006 0601                        | TRET-O-LITE K-430-W GALS |                   |                  | 11.4                           | 16.3             | 24.5               | 35.2               | 11.4               | 16.3               |
| TOTAL PROC SUPP-CORR INH (PROC) |                          |                   |                  | 16.3                           |                  | 35.2               |                    | 16.3               |                    |
| TOTAL CLASSIFIED                |                          |                   |                  | 16.3                           |                  | 35.2               |                    | 16.3               |                    |
| TOTAL PROCESSING SUPPLIES       |                          | 1,335.3           |                  | 15,757.2                       |                  | 14,280.3           |                    | 15,757.2           |                    |
| PER BBL CRUDE CHARGE            |                          | .2462             |                  | .2739                          |                  | .2632              |                    | .2739              |                    |

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OTHER PURCHASES DETAIL - SCHEDULE D  
 (IN THOUSANDS)

| ----- MONTH -----               |                            | ----- CUMULATIVE TO DATE ----- |         | ----- 1990 CUMULATIVE- ----- |         |          |                     |
|---------------------------------|----------------------------|--------------------------------|---------|------------------------------|---------|----------|---------------------|
| DECEMBER 1990                   |                            | ACTUAL 1990                    |         | ACT OVER (UNDER) PO          |         |          |                     |
| FTR                             | DESCRIPTION                | QUANTITY                       | DOLLARS | QUANTITY                     | DOLLARS | QUANTITY | DOLLARS             |
| 7406-REF EXCHANGE DELIVERIES    |                            |                                |         |                              |         |          |                     |
| 074 8932                        | ANODE COKE                 |                                |         |                              |         | 17-      | 520-                |
| 021 0192                        | BENZENE HEARTCUT           | 112-                           | 4,064-  | 950-                         | 25,093- |          | 950- 25,093-        |
| 074 8950                        | GREEN HIGH SULFUR COKE     |                                |         |                              |         | 3-       | 11-                 |
| 074 8941                        | GREEN PURCHASED ANODE      |                                |         |                              |         | 35-      | 402-                |
| 074 8280                        | VISTA HYDROGEN             | 17-                            | 284-    | 417-                         | 5,453-  |          | 417- 5,453-         |
| TOTAL REF EXCHANGE DELIVERIES   |                            | 128-                           | 4,348-  | 1,367-                       | 30,546- | 55-      | 933- 1,367- 30,546- |
| 7413-REF OTHER PURCH INTERDEPT  |                            |                                |         |                              |         |          |                     |
| 012 8243                        | BUTANE <NORMAL BUTANE>     | 98                             | 2,634   | 482                          | 11,397  | 301      | 4,375 482 11,397    |
| 012 8260                        | BUTYLENE <BUTANE-BUTYLENE> |                                |         | 33                           | 596     |          | 33 596              |
| 012 8216                        | CASINGHEAD <LT. GASO>      | 27                             | 716     | 300                          | 6,856   | 268      | 4,698 300 6,856     |
| 012 8539                        | GAS OIL                    |                                | 54      | 87                           | 3,249   | 234      | 5,334 87 3,249      |
| 012 8252                        | ISOBUTANE                  | 32                             | 940     | 599                          | 13,479  | 864      | 14,181 599 13,479   |
| 012 0191                        | ISOPENTANE                 | 9                              | 251     | 113                          | 2,563   | 90       | 1,583 113 2,563     |
| 013 0180                        | NAPHTHA CUTTERSTOCK        | 124                            | 3,113   | 795                          | 20,429  | 516      | 9,083 795 20,429    |
| 012 8205                        | SLOP                       |                                |         | 2                            | 16      |          | 2 16                |
| 012 0116                        | ST. RUN GASOLINE           |                                |         |                              |         | 100      | 1,858               |
| 012 0002                        | SULFUR                     |                                |         | 5                            |         |          | 5                   |
| TOTAL REF OTHER PURCH INTERDEPT |                            | 290                            | 7,709   | 2,416                        | 58,585  | 2,373    | 41,111 2,416 58,585 |
| 7414-REF OTHER PURCH INTERDEPT  |                            |                                |         |                              |         |          |                     |
| 01 8260                         | BUTANE BUTYLENE            |                                |         | 58                           | 1,492   |          | 58 1,492            |
| 06 8942                         | PC RECARBURIZER            | 7                              | 70      | 167                          | 3,519   |          | 167 3,519           |
| 09 7100                         | VACUUM BOTTOMS <VAC RESID> | 51                             | 1,035   | 309                          | 6,200   | 60       | 806 309 6,200       |
| 14 8096                         | 650 EXTRACT TRANSFER       |                                |         |                              |         |          | 3                   |
| TOTAL REF OTHER PURCH INTERDEPT |                            | 57                             | 1,105   | 535                          | 11,211  | 60       | 809 535 11,211      |
| 7415-REF OTHER PURCH OUTSIDE    |                            |                                |         |                              |         |          |                     |
| 21 914                          | AROMATIC DISTILLATE        |                                |         |                              |         |          | 2                   |
| 22 8260                         | BUTANE - BUTYLENE          |                                |         |                              |         | 33       | 579                 |
| 81 8934                         | CAL HIGH SULFUR            |                                |         |                              |         |          | 22-                 |
| 25 8579                         | DUST ABATEMENT OIL         |                                |         | 2                            |         | 3        | 136                 |
| 26 8539                         | GAS OIL                    | 3                              |         |                              | 3       |          | 1                   |
| 21 8950                         | GREEN HIGH SULFUR FUEL     |                                |         |                              |         |          | 1                   |
| 21 0235                         | HEAVY AROMATIC - VISTA     | 8                              | 165     | 111                          | 2,111   | 99       | 1,649 111 2,111     |
| 25 8282                         | HYDROGEN JUPITER           | 54                             | 1,868   | 537                          | 15,902  | 245      | 6,043 537 15,902    |
| 25 8280                         | HYDROGEN VISTA             |                                |         |                              |         | 927      | 14,655              |
| 21 0150                         | JET 50 - Q GRADE           |                                |         | 5                            | 213     |          | 5 213               |
| 21 0043                         | KEROSENE                   |                                |         |                              |         |          |                     |
| 21 8932                         | LCH ANODE COKE             |                                |         | 7                            | 302     | 14       | 445 7 302           |
| 21 0067                         | LSR DISTILLATE AROMATIC    | 8                              |         | 8                            |         |          | 8                   |

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OTHER PURCHASES DETAIL - SCHEDULE D  
 (IN THOUSANDS)

|                               |                                 | ----- MONTH ----- |         | ----- CUMULATIVE TO DATE ----- |         |             |         | ----- 1990 CUMULATIVE- ----- |         |
|-------------------------------|---------------------------------|-------------------|---------|--------------------------------|---------|-------------|---------|------------------------------|---------|
|                               |                                 | DECEMBER 1990     |         | PROFIT OBJ 1990                |         | ACTUAL 1990 |         | ACT OVER (UNDER) PO          |         |
| FTR                           | ----- DESCRIPTION -----         | QUANTITY          | DOLLARS | QUANTITY                       | DOLLARS | QUANTITY    | DOLLARS | QUANTITY                     | DOLLARS |
| 7415-REF OTHER PURCH OUTSIDE  |                                 |                   |         |                                |         |             |         |                              |         |
| 025                           | 0024 METHANOL                   | 10                | 121     |                                |         | 58          | 922     | 58                           | 922     |
| 021                           | 0300 MOLEX GASOLINE             | 52                | 1,330   |                                |         | 620         | 16,688  | 620                          | 16,688  |
| 022                           | 0046 MOLEX RAFFINATE            | 233               | 7,843   |                                |         | 2,885       | 87,981  | 2,885                        | 87,981  |
| 022                           | 0182 HAPHTHA                    |                   | 1       |                                |         | 138         | 3,489   | 138                          | 3,489   |
| 25                            | 8552 OLD PLANT TAR              | 41                | 1,092   |                                |         | 622         | 12,881  | 622                          | 12,881  |
| 021                           | 8286 SABINE HAD                 |                   |         |                                |         | 62          | 282     | 62                           | 282     |
| 021                           | 8285 SLOP                       |                   |         |                                |         |             | 4       |                              | 4       |
| 022                           | 7200 SOHIO SLURRY OIL           | 118               | 2,590   |                                |         | 1,095       | 21,194  | 1,095                        | 21,194  |
| 21                            | 280 STRIPPER OVERHEAD           | 30                | 935     |                                |         | 363         | 9,599   | 363                          | 9,599   |
| 021                           | 7100 VACUUM BOTTOMS <VAC RESID> | 25                | 499     |                                |         | 1,309       | 21,295  | 1,309                        | 21,295  |
| 021                           | 0160 VISTA LPA SOLVENT          |                   |         |                                |         | 3           | 6       | 3                            | 168     |
| TOTAL REF OTHER PURCH OUTSIDE |                                 | 580               | 16,449  |                                |         | 7,825       | 192,866 | 8,179                        | 157,572 |
| 7416-REF EXCHANGE RECEIPTS    |                                 |                   |         |                                |         |             |         |                              |         |
| 021                           | 0193 BENZENE                    | 21                | 815     |                                |         | 131         | 3,941   | 131                          | 3,941   |
| 021                           | 0124 BENZENE RAFFINATE          | 80                | 2,929   |                                |         | 790         | 20,649  | 790                          | 20,649  |
| 074                           | 8935 CALCINED LOW SULFUR COKE   |                   |         |                                |         |             | 42      | 804                          |         |
| 074                           | 8950 GREEN SUFUR FUEL           |                   |         |                                |         |             | 24      | 220                          |         |
| 074                           | 8941GREEN PURCHASED ANODE       |                   | 290     |                                |         |             | 59      | 698                          | 290     |
| 074                           | 8280 VISTA HYDROGEN             | 44                | 770     |                                |         | 440         | 6,022   | 440                          | 6,022   |
| TOTAL REF EXCHANGE RECEIPTS   |                                 | 145               | 4,804   |                                |         | 1,361       | 30,902  | 125                          | 1,722   |
| TOTAL OTHER PURCHASES         |                                 | 945               | 25,719  |                                |         | 10,770      | 263,018 | 10,770                       | 263,018 |
| PER BBL CRUDE CHARGE          |                                 |                   | 4.7412  |                                |         |             | 4.5720  |                              | 3.6912  |

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CASOLINE BLENDER

0025 - CODE

|                                       | MONTH    |         | CUMULATIVE TO DATE |               |            |           |
|---------------------------------------|----------|---------|--------------------|---------------|------------|-----------|
|                                       | DECEMBER | 1990    | CURRENT YEAR       | PREVIOUS YEAR |            |           |
|                                       | QUANTITY | DOLLARS | QUANTITY           | DOLLARS       |            |           |
| PAYROLL                               |          |         |                    |               |            |           |
| 002 0002 OPERATORS                    |          |         |                    | 192           |            |           |
| 002 0005 TRUCK DRIVERS                |          |         | 127                |               |            |           |
| 013 0000 MAINTENANCE LABOR            |          | 5,213   | 57,694             | 70,626        |            |           |
| TOTAL PAYROLL                         |          | 5,213   | 57,822             | 70,816        |            |           |
| CONTRACT COSTS                        |          |         |                    |               |            |           |
| 022 0001 GENERAL LABOR                |          |         | 97,892             | 1,612         |            |           |
| 022 0006 JANITORS CLEANUP GARDENING   | 132      |         | 2,923              | 960           |            |           |
| 022 0018 NONHAZARDOUS WASTE NOT TRASH |          |         | 1,022              |               |            |           |
| 022 0716 ENVIR HAZARDOUS WASTE        |          |         | 779                |               |            |           |
| 023 0000 MAINTENANCE LABOR            | 717      |         | 20,662             | 10,042        |            |           |
| 024 0000 MAINTENANCE MATERIAL         |          |         | 521                |               |            |           |
| 028 0001 CONTRACTORS EQUIP RENTALS    | 94       |         | 3,425              | 392           |            |           |
| 028 0718 ENVIR HAZARDOUS WASTE        |          |         | 101                |               |            |           |
| TOTAL CONTRACT COSTS                  | 943      |         | 127,332            | 13,006        |            |           |
| MATERIAL-OPERATING                    |          |         |                    |               |            |           |
| 003 0000 HOUSE SANITATION SUPPLIES    |          |         | 194                | 79            |            |           |
| 003 0015 SAFETY SUPPLIES              |          |         | 231                | 110           |            |           |
| 003 0030 MISCELLANEOUS                |          |         | 230                | 3,330         |            |           |
| TOTAL MATERIAL-OPERATING              |          |         | 655                | 3,519         |            |           |
| MATERIALS-MAINTENANCE                 |          |         |                    |               |            |           |
| 014 0000 MATERIALS MAINTENANCE        |          | 1,376   | 26,221             | 22,507        |            |           |
| TOTAL MATERIALS-MAINTENANCE           |          | 1,376   | 26,221             | 22,507        |            |           |
| PROC SUPP-NONCLASSIFIED               |          |         |                    |               |            |           |
| 006 0050 DYE - BRONZE REG GAS LBS     |          |         | 720-               | 3,777-        | 7,440      | 37,613    |
| 006 0059 DYE - RED PREM GAS LBS       |          |         | 2,890              | 14,227        | 4,800      | 21,689    |
| 006 0106 VAN DRI-O-LITE LBS           |          |         | 110                | 75            |            |           |
| 006 0160 LEAD ALKYL (REG) M GRAMS     |          |         | 446,360            | 10,761        | 24,539,085 | 512,778   |
| 006 0294 DUPONT AD 23 LBS             | 29       | 60      | 105,081            | 220,994       | 116,757    | 227,175   |
| 005 0359 GLYCERINE GAL                |          |         | 570                | 506           |            |           |
| 006 0499 ETHYL MMT COMPOUND GRAMS     |          |         | 537,240            | 30,875        | 23,652,990 | 1,340,355 |
| TOTAL PROC SUPP-NONCLASSIFIED         |          | 60      | 273,660            |               |            | 2,139,609 |
| CLEARANCE FROM OTHER DEPTS            |          |         |                    |               |            |           |
| 18 0036 ELECTRICITY-KWH CLEARANCE     | 717,170  | 35,338  | 9,052,845          | 453,342       | 7,714,463  | 363,773   |
| TOTAL CLEARANCE FROM OTHER DEPTS      | 717,170  | 35,338  | 9,052,845          | 453,342       | 7,714,463  | 363,773   |
| MISCELLANEOUS EXPENSE                 |          |         |                    |               |            |           |

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LAKE CHARLES RPY

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GASOLINE BULKHEAD

| CODE                         | MONTH    |         | CUMULATIVE TO DATE |         |               |           |
|------------------------------|----------|---------|--------------------|---------|---------------|-----------|
|                              | DECEMBER | 1990    | CURRENT YEAR       |         | PREVIOUS YEAR |           |
|                              | QUANTITY | DOLLARS | QUANTITY           | DOLLARS | QUANTITY      | DOLLARS   |
| MISCELLANEOUS EXPENSE        |          |         |                    |         |               |           |
| 0020 UNCLASSIFIED EXPENSE    |          |         |                    | 1,352   |               |           |
| 0021 DEMURRAGE               |          |         |                    | 2,063   |               | 1,361     |
| 0030 MISC FREIGHT OVER \$100 |          |         |                    | 30,298  |               |           |
| SAL MISCELLANEOUS EXPENSE    |          |         |                    | 33,732  |               | 1,361     |
| SAL DEPARTMENTAL EXPENSE     |          | 42,929  | 12,019,412         | 972,765 | 14,297,642    | 2,614,594 |
| PER BBL THROUGHPUT           |          |         |                    | .0809   |               | .1828     |
| T DEPARTMENTAL EXPENSE       |          | 42,929  | 12,019,412         | 972,765 | 14,297,642    | 2,614,594 |
| PER BBL THROUGHPUT           |          |         |                    | .0809   |               | .1828     |

SAL 000004057

12:42 01/0

CONOCO INC.-LAKE CHARLES REFINERY

ME01 - CITGO EXCHANGE BALANCE

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| PRODUCTS         | DECEMBER |         | INVENTORY AND R/S |          | SALE    | DECEMBER |       | PRODUCTION |      | LOADED | NET     | PRODUCT |
|------------------|----------|---------|-------------------|----------|---------|----------|-------|------------|------|--------|---------|---------|
|                  | OPENING  | CLOSING | CHANGE            | PURCHASE |         | VOLUME   | VOL % | WEIGHT     | WT % |        |         |         |
|                  | BBLS     | BBLS    | BBLS              | BBLS     | BBLS    | BBLS     |       | MLBS       |      | BBLS   | BBLS    |         |
| OIL EXCHANGE     |          |         |                   |          |         |          |       |            |      |        |         |         |
| BENZENE HEARTCUT | 203.     | 0.      | -203.             | 108742.  | 0.      | -108945. | 0.0   | -27852.    | 0.0  | 0.     | -203.   | 0192    |
| BENZENE          | 12783.   | 5607.   | -7176.            | 0.       | 20953.  | 13777.   | 0.0   | 3522.      | 0.0  | 0.     | 13777.  | 0193    |
| RAFFINATE        | 5613.    | 20385.  | 14772.            | 0.       | 80396.  | 95168.   | 0.0   | 24330.     | 0.0  | 0.     | 95168.  | 0194    |
| L CITGO EXCHANGE | 18599.   | 25992.  | 7393.             | 108742.  | 101349. | 0.       | 0.0   | 0.         | 0.0  | 0.     | 108742. |         |
| L PRODUCTS       | 18599.   | 25992.  | 7393.             | 108742.  | 101349. | 0.       | 0.0   | 0.         | 0.0  | 0.     | 108742. |         |

PROCESSING SUPPLIES\*\*\*

ONE UNIT OF MEASUREMENT:  
 GALLON FUEL OIL EQUIVALENT (FOE) FOE  
 EQUIVALENT LIQUID BARRELS ELB  
 SHORT TONS TONS  
 POUNDS 100%  
 GALLONS GALS  
 POUNDS LBS  
 THOUSANDS OF POUNDS MLBS

SAL 000004058

|                       | YTD 1990 INVENTORY AND R/S |         | YTD 1990 PRODUCTION |          |        |         |       |         |       |        | NET    | PRODUCT |
|-----------------------|----------------------------|---------|---------------------|----------|--------|---------|-------|---------|-------|--------|--------|---------|
|                       | OPENING                    | CLOSING | CHANGE              | PURCHASE | SALE   | VOLUME  | VOL % | WEIGHT  | WT %  | LOADED | OUTPUT |         |
|                       | BBLs                       | BBLs    | BBLs                | MBBLs    | MBBLs  | MBBLs   |       | MMLBS   |       | BBLs   | MBBLs  |         |
| **** CHARGES ****     |                            |         |                     |          |        |         |       |         |       |        |        |         |
| CRUDE OIL             |                            |         |                     |          |        |         |       |         |       |        |        |         |
| SWEET CRUDE           |                            |         |                     |          |        |         |       |         |       |        |        |         |
| CONOCO PIPELN-RF      | 80018.                     | 28438.  | -51580.             | 5297.7   | 0.0    | 5349.2  | 9.2   | 1539.0  | 8.4   | 0.     | 0.0    |         |
| DOMESTIC BRGE-RF      | 23270.                     | 112572. | 89302.              | 9492.1   | 0.0    | 9402.8  | 16.1  | 2720.4  | 14.9  | 0.     | 0.0    |         |
| TEXACO PIPELN-RF      | 22770.                     | 93448.  | 70678.              | 5281.2   | 0.0    | 5210.5  | 8.9   | 1543.4  | 8.5   | 0.     | 0.0    |         |
| CONDENSATE-RF         | 0.                         | 16520.  | 16520.              | 347.9    | 0.0    | 331.4   | 0.6   | 94.1    | 0.5   | 0.     | 0.0    |         |
| SUBTOTAL SWEET CRUDE  | 126058.                    | 250978. | 124920.             | 20418.9  | 0.0    | 20294.0 | 34.8  | 5896.9  | 32.3  | 0.     | 0.0    |         |
| SOUR CRUDE            |                            |         |                     |          |        |         |       |         |       |        |        |         |
| BCF22 VENEZUE-RF      | 0.                         | 26558.  | 26558.              | 5226.7   | 0.0    | 5200.2  | 8.9   | 1674.5  | 9.2   | 0.     | 0.0    |         |
| MESA 30 VENE-RF       | 0.                         | 0.      | 0.                  | 400.2    | 0.0    | 400.2   | 0.7   | 121.7   | 0.7   | 0.     | 0.0    |         |
| MAYA MEXICAN-RF       | 167950.                    | 76587.  | -91363.             | 12686.5  | 0.0    | 12777.9 | 21.9  | 4114.0  | 22.6  | 0.     | 0.0    |         |
| MEREY VENEZU-RF       | 132828.                    | 112 05. | -20123.             | 13469.2  | 0.0    | 13489.3 | 23.1  | 4519.7  | 24.8  | 0.     | 0.0    |         |
| ORIENTE EQUAD-RF      | 20.                        | 0.      | -200.               | 0.5      | 0.0    | 0.7     | 0.0   | 0.2     | 0.0   | 0.     | 0.0    |         |
| ALASKAN N/S-RF        | 25528.                     | 0.      | -25528.             | 1729.0   | 0.0    | 1754.6  | 3.0   | 549.2   | 3.0   | 0.     | 0.0    |         |
| PILON VENEZU-RF       | 0.                         | 0.      | 0.                  | 966.8    | 0.0    | 966.8   | 1.7   | 330.6   | 1.8   | 0.     | 0.0    |         |
| W. COAST SOUR-RF      | 0.                         | 7519.   | 7519.               | 1049.6   | 0.0    | 1042.1  | 1.8   | 325.3   | 1.8   | 0.     | 0.0    |         |
| FURRIAL-RF            | 0.                         | 0.      | 0.                  | 1064.1   | 0.0    | 1064.1  | 1.8   | 329.6   | 1.8   | 0.     | 0.0    |         |
| OMAN EGYPT-RF         | 0.                         | 0.      | 0.                  | 537.6    | 0.0    | 537.6   | 0.9   | 159.0   | 0.9   | 0.     | 0.0    |         |
| SUBTOTAL SOUR CRUDE   | 326506.                    | 223369. | -103137.            | 37130.3  | 0.0    | 37233.4 | 63.8  | 12123.8 | 66.5  | 0.     | 0.0    |         |
| TOTAL CRUDE OIL       | 452564.                    | 474347. | 21783.              | 57549.3  | 0.0    | 57527.5 | 98.6  | 18020.7 | 98.9  | 0.     | 0.0    |         |
| REFURON STOCK         |                            |         |                     |          |        |         |       |         |       |        |        |         |
| NAPHTHA C/S-RF        | 0.                         | 5116.   | 5116.               | 800.6    | 0.0    | 795.5   | 1.4   | 208.6   | 1.1   | 0.     | 0.0    |         |
| TOTAL CHARGES         | 452564.                    | 479463. | 26899.              | 58349.9  | 0.0    | 58323.0 | 100.0 | 18229.4 | 100.0 | 0.     | 0.0    |         |
| **** PRODUCTS ****    |                            |         |                     |          |        |         |       |         |       |        |        |         |
| NAT GAS LIQUIDS       |                            |         |                     |          |        |         |       |         |       |        |        |         |
| REF PROPANE           | 0.                         | 0.      | 0.                  | 0.0      | 1087.0 | 1087.0  | 1.9   | 192.5   | 1.1   | 0.     | 1087.0 |         |
| PROP-PROPYLENE        | 1439.                      | 6413.   | 4974.               | 0.0      | 427.3  | 433.7   | 0.7   | 78.7    | 0.4   | 0.     | 433.7  |         |
| REF BUTANE            | 0.                         | 0.      | 0.                  | 482.3    | 280.9  | -201.4  | -0.3  | -41.0   | -0.2  | 0.     | 280.9  |         |
| REF ISOBUTANE         | 0.                         | 0.      | 0.                  | 598.5    | 0.0    | -598.5  | -1.0  | -117.4  | -0.6  | 0.     | 0.0    |         |
| BUTANE-BUTYLENE       | 5370.                      | 4580.   | -790.               | 90.9     | 0.0    | -91.7   | -0.2  | -18.8   | -0.1  | 0.     | -0.8   |         |
| REF ISOPENTANE        | 0.                         | 0.      | 0.                  | 112.8    | 0.0    | -112.8  | -0.2  | -24.6   | -0.1  | 0.     | 0.0    |         |
| DEN CASINGHEAD        | 0.                         | 0.      | 0.                  | 300.1    | 0.0    | -300.1  | -0.5  | -68.8   | -0.4  | 0.     | 0.0    |         |
| TOTAL NAT GAS LIQUIDS | 6809.                      | 10993.  | 4184.               | 1584.7   | 1795.2 | 216.1   | 0.4   | 0.6     | 0.0   | 0.     | 1800.8 |         |

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|                           | YTD 1990 INVENTORY AND R/S |         |         |          |         | YTD 1990 PRODUCTION |       |        |      |        | NET     |         |
|---------------------------|----------------------------|---------|---------|----------|---------|---------------------|-------|--------|------|--------|---------|---------|
|                           | OPENING                    | CLOSING | CHANGE  | PURCHASE | SALE    | VOLUME              | VOL % | WEIGHT | WT % | LOADED | OUTPUT  | PRODUCT |
|                           | BBLs                       | BBLs    | BBLs    | MBBLs    | MBBLs   | MBBLs               |       | MMLBS  |      | BBLs   | MBBLs   |         |
| <b>OTOR FUELS</b>         |                            |         |         |          |         |                     |       |        |      |        |         |         |
| FNSHD REGULAR             |                            |         |         |          |         |                     |       |        |      |        |         |         |
| REG GASOLINE              | 16775.                     | 0.      | -16775. | 0.0      | 80.0    | 63.2                | 0.1   | 16.5   | 0.1  | 0.     | 63.2    |         |
| LOCAL REGULAR             | 34194.                     | 0.      | -34194. | 0.0      | 46.9    | 12.7                | 0.0   | 3.2    | 0.0  | 0.     | 12.7    |         |
| SUBTOTAL FNSHD REGULAR    | 50969.                     | 0.      | -50969. | 0.0      | 126.9   | 75.9                | 0.1   | 19.7   | 0.1  | 0.     | 75.9    |         |
| FNSHD UNLEADED            |                            |         |         |          |         |                     |       |        |      |        |         |         |
| UNLD GASOLINE             | 153995.                    | 233270. | 79275.  | 0.0      | 13036.1 | 13072.8             | 22.4  | 3356.7 | 18.4 | 0.     | 13072.8 |         |
| LOCAL UNLEADED            | 24042.                     | 35082.  | 11040.  | 0.0      | 1569.1  | 1580.1              | 2.7   | 405.1  | 2.2  | 0.     | 1580.1  |         |
| SUBTOTAL FNSHD UNLEADED   | 178037.                    | 268352. | 90315.  | 0.0      | 14605.2 | 14652.9             | 25.1  | 3761.8 | 20.6 | 0.     | 14652.9 |         |
| FNSHD MD GR UNLD          |                            |         |         |          |         |                     |       |        |      |        |         |         |
| MID GRADE UNLD            | 0.                         | 49045.  | 49045.  | 0.0      | 1442.9  | 1491.9              | 2.6   | 390.8  | 2.1  | 0.     | 1491.9  |         |
| LOCAL MI GR UNLD          | 0.                         | 37284.  | 37284.  | 0.0      | 266.0   | 303.3               | 0.5   | 79.4   | 0.4  | 0.     | 303.3   |         |
| SUBTOTAL FNSHD MD GR UNLD | 0.                         | 86329.  | 86329.  | 0.0      | 1708.9  | 1795.2              | 3.1   | 470.2  | 2.6  | 0.     | 1795.2  |         |
| FNSHD SUPR UNLD           |                            |         |         |          |         |                     |       |        |      |        |         |         |
| SUPR UNLEADED             | 14313.                     | 63445.  | 49132.  | 0.0      | 3112.4  | 3178.2              | 5.4   | 837.0  | 4.6  | 0.     | 3178.2  |         |
| LOCAL SUPR UNLD           | 29185.                     | 30920.  | 1735.   | 0.0      | 549.5   | 551.2               | 0.9   | 144.0  | 0.8  | 0.     | 551.2   |         |
| SUBTOTAL FNSHD SUPR UNLD  | 43498.                     | 94365.  | 50867.  | 0.0      | 3661.8  | 3729.5              | 6.4   | 981.0  | 5.4  | 0.     | 3729.5  |         |
| GASO. BASE STOCK          |                            |         |         |          |         |                     |       |        |      |        |         |         |
| MTBE                      | 18431.                     | 12721.  | -5710.  | 0.0      | 0.0     | -5.7                | 0.0   | -1.5   | 0.0  | 0.     | -5.7    |         |
| BASE ST RUN GASO          | 31127.                     | 25198.  | -5929.  | 0.0      | 0.0     | -5.9                | 0.0   | -1.5   | 0.0  | 0.     | -5.9    |         |
| BASE FCC GASO             | 37423.                     | 84233.  | 46810.  | 0.0      | 0.0     | 46.8                | 0.1   | 12.3   | 0.1  | 0.     | 46.8    |         |
| BASE REFORMATE            | 61184.                     | 87065.  | 25881.  | 0.0      | 3.0     | 28.9                | 0.0   | 8.2    | 0.0  | 0.     | 28.9    |         |
| #2 REFORMATE              | 0.                         | 0.      | 0.      | 0.0      | 1.9     | 1.9                 | 0.0   | 0.5    | 0.0  | 0.     | 1.9     |         |
| ALKYLATE                  | 14369.                     | 36079.  | 21710.  | 0.0      | 0.0     | 21.7                | 0.0   | 5.3    | 0.0  | 0.     | 21.7    |         |
| SUBTOTAL GASO. BASE STOCK | 162534.                    | 245296. | 82762.  | 0.0      | 5.0     | 87.8                | 0.2   | 23.3   | 0.1  | 0.     | 87.8    |         |
| NAPHTHA STOCKS            |                            |         |         |          |         |                     |       |        |      |        |         |         |
| MOLEX GASOLINE            | 0.                         | 0.      | 0.      | 620.0    | 0.0     | -620.0              | -1.1  | -166.6 | -0.9 | 0.     | 0.0     |         |
| SWEET NAPHTHA             | 22406.                     | 26150.  | 3744.   | 0.0      | 0.0     | 3.7                 | 0.0   | 1.1    | 0.0  | 0.     | 3.7     |         |
| SOUR NAPHTHA              | 258203.                    | 286980. | 28777.  | 137.7    | 348.1   | 239.2               | 0.4   | 61.7   | 0.3  | 0.     | 376.9   |         |
| CRACKED NAPHTHA           | 1232.                      | 1232.   | 0.      | 0.0      | 0.0     | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 0.0     |         |
| SUBTOTAL NAPHTHA STOCKS   | 281841.                    | 314362. | 32521.  | 757.7    | 348.1   | -377.0              | -0.6  | -103.8 | -0.6 | 0.     | 380.6   |         |
| MISC FEEDSTOCK            |                            |         |         |          |         |                     |       |        |      |        |         |         |
| LSR GASOLINE              | 23225.                     | 13510.  | -9715.  | 0.0      | 516.3   | 506.6               | 0.9   | 119.9  | 0.7  | 0.     | 506.6   |         |
| BENZENE HEARTCUT          | 0.                         | 0.      | 0.      | 0.0      | 949.8   | 949.8               | 1.6   | 272.0  | 1.5  | 0.     | 949.8   |         |
| BENZENE                   | 0.                         | 0.      | 0.      | 131.5    | 130.8   | -0.6                | 0.0   | -0.2   | 0.0  | 0.     | 130.8   |         |
| RAFFINATE                 | 0.                         | 0.      | 0.      | 789.6    | 792.9   | 2.6                 | 0.0   | 0.7    | 0.0  | 0.     | 792.2   |         |

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|                           | YTD 1990 INVENTORY AND R/S |          |          |          |         | YTD 1990 PRODUCTION |       |        |      |        | NET     |         |
|---------------------------|----------------------------|----------|----------|----------|---------|---------------------|-------|--------|------|--------|---------|---------|
|                           | OPENING                    | CLOSING  | CHANGE   | PURCHASE | SALE    | VOLUME              | VOL % | WEIGHT | WT % | LOADED | OUTPUT  | PRODUCT |
|                           | BBLs                       | BBLs     | BBLs     | MBBLs    | MBBLs   | MBBLs               |       | MMBLS  |      | BBLs   | MBBLs   |         |
| METHANOL                  | 0.                         | 25195.   | 25195.   | 57.8     | 0.0     | -32.6               | -0.1  | -8.7   | 0.0  | 0.     | 25.2    |         |
| POLY GASOLINE             | 0.                         | 0.       | 0.       | 1.2      | 0.0     | -1.2                | 0.0   | -0.3   | 0.0  | 0.     | 0.0     |         |
| SUBTOTAL MISC FEEDSTOCK   | 23225.                     | 38705.   | 15480.   | 980.0    | 2389.8  | 1424.6              | 2.4   | 383.4  | 2.1  | 0.     | 2404.7  |         |
| TOTAL MOTOR FUELS         | 740104.                    | 1047409. | 307305.  | 1737.7   | 22845.7 | 21388.9             | 36.7  | 5535.6 | 30.4 | 0.     | 23126.6 |         |
| LIGHT FUEL OILS           |                            |          |          |          |         |                     |       |        |      |        |         |         |
| JET 50/KEROSENE           |                            |          |          |          |         |                     |       |        |      |        |         |         |
| JET 50 FUEL               | 77785.                     | 94501.   | 16716.   | 5.1      | 6257.5  | 6269.1              | 10.7  | 1789.0 | 9.8  | 0.     | 6274.2  |         |
| LOCAL JET 50              | 2707.                      | 2962.    | 255.     | 0.0      | 127.0   | 127.3               | 0.2   | 36.0   | 0.2  | 0.     | 127.3   |         |
| CONOCO LVT OIL            | 0.                         | 0.       | 0.       | 0.0      | 13.3    | 13.3                | 0.0   | 3.8    | 0.0  | 0.     | 13.3    |         |
| LVT 200                   | 9377.                      | 4768.    | -4609.   | 0.0      | 153.9   | 149.3               | 0.3   | 42.9   | 0.2  | 0.     | 149.3   |         |
| LVT LIGHT                 | 0.                         | 12265.   | 12265.   | 0.0      | 132.0   | 139.6               | 0.2   | 39.1   | 0.2  | 2667.  | 139.6   |         |
| VSTA LPA SOLVENT          | 0.                         | 0.       | 0.       | 3.3      | 0.0     | -3.3                | 0.0   | -0.9   | 0.0  | 0.     | 0.0     |         |
| MOLEX RAFFINATE           | 13282.                     | 12401.   | -881.    | 2884.7   | 89.0    | -2797.0             | -4.8  | -796.2 | -4.4 | 0.     | 87.7    |         |
| SUBTOTAL JET 50/KEROSENE  | 103151.                    | 126897.  | 23746.   | 2893.1   | 6772.6  | 3898.1              | 6.7   | 1113.6 | 6.1  | 2667.  | 6791.3  |         |
| DIESEL & #2 FUEL          |                            |          |          |          |         |                     |       |        |      |        |         |         |
| FUNGIBLE DIESEL           | 84149.                     | 372282.  | 288133.  | 0.0      | -19.2   | 254.3               | 0.4   | 75.3   | 0.4  | 0.     | 254.3   |         |
| LOCAL NO. 2 OIL           | 36628.                     | 26413.   | -10215.  | 0.0      | 21615.4 | 21605.2             | 37.0  | 6479.7 | 35.5 | 0.     | 21605.2 |         |
| DISTILLATE BASE           | 232390.                    | 168403.  | -63987.  | 0.0      | 0.0     | -64.0               | -0.1  | -19.0  | -0.1 | 0.     | -64.0   |         |
| SUBTOTAL DIESEL & #2 FUEL | 353167.                    | 567098.  | 213931.  | 0.0      | 21596.2 | 21795.5             | 37.4  | 6536.0 | 35.9 | 0.     | 21795.5 |         |
| MOLEX FEEDSTOCK           |                            |          |          |          |         |                     |       |        |      |        |         |         |
| MOLEX FEED                | 0.                         | 0.       | 0.       | 0.0      | 2652.7  | 2652.7              | 4.5   | 748.1  | 4.1  | 0.     | 2652.7  |         |
| TOTAL LIGHT FUEL OILS     | 456318.                    | 693995.  | 237677.  | 2893.1   | 31021.5 | 28346.3             | 48.6  | 8397.7 | 46.1 | 2667.  | 31239.5 |         |
| STKS IN PROCESS           |                            |          |          |          |         |                     |       |        |      |        |         |         |
| LT GAS OILS               |                            |          |          |          |         |                     |       |        |      |        |         |         |
| CUTTER STOCK              | 0.                         | 0.       | 0.       | 0.0      | 802.7   | 802.7               | 1.4   | 211.5  | 1.2  | 0.     | 802.7   |         |
| FCC CYCLE OIL             | 20204.                     | 13602.   | -6602.   | 0.0      | 0.0     | -6.6                | 0.0   | -1.7   | 0.0  | 0.     | -6.6    |         |
| CRACKED DIST              | 152805.                    | 36021.   | -116784. | 8.4      | 108.3   | -17.0               | 0.0   | -5.7   | 0.0  | 0.     | -8.5    |         |
| CYC HEATING OIL           | 0.                         | 0.       | 0.       | 0.0      | 9.0     | 9.0                 | 0.0   | 2.8    | 0.0  | 0.     | 9.0     |         |
| PENRECO 750 OIL           | 0.                         | 0.       | 0.       | 1.8      | 0.1     | -1.7                | 0.0   | -0.4   | 0.0  | 0.     | 0.1     |         |
| FLD-PRO 1100              | 0.                         | 0.       | 0.       | 0.5      | 0.1     | -0.4                | 0.0   | -0.1   | 0.0  | 0.     | 0.1     |         |
| SUBTOTAL LT GAS OILS      | 173009.                    | 49623.   | -123386. | 10.7     | 920.2   | 786.1               | 1.3   | 206.4  | 1.1  | 0.     | 796.8   |         |
| HVY GAS OILS              |                            |          |          |          |         |                     |       |        |      |        |         |         |
| GAS OIL                   | 0.                         | 0.       | 0.       | 69.4     | 67.8    | -1.6                | 0.0   | -0.5   | 0.0  | 0.     | 67.8    |         |
| HV COK GAS OIL            | 73707.                     | 53385.   | -20322.  | 0.0      | 238.9   | 217.7               | 0.4   | 71.4   | 0.4  | 0.     | 217.7   |         |
| SWT FCC CHG STK           | 186816.                    | 178088.  | -8728.   | 0.0      | 2912.5  | 2794.1              | 4.8   | 883.9  | 4.8  | 0.     | 2794.1  |         |
| THERMAL CHARGE            | 17977.                     | 11084.   | -6893.   | 0.0      | 0.0     | -6.9                | 0.0   | -2.5   | 0.0  | 0.     | -6.9    |         |
| DESUL. SLURRY             | 0.                         | 0.       | 0.       | 0.0      | 7.1     | 7.1                 | 0.0   | 2.6    | 0.0  | 0.     | 7.1     |         |
| SUBTOTAL HVY GAS OILS     | 278500.                    | 242557.  | -35943.  | 69.4     | 3225.3  | 3010.4              | 5.2   | 954.9  | 5.2  | 0.     | 3079.8  |         |

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|                       | YTD 1990 INVENTORY AND R/S |                 |                |                   |               | YTD 1990 PRODUCTION |       |                 |      |                | NET             |         |
|-----------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|-------|-----------------|------|----------------|-----------------|---------|
|                       | OPENING<br>BBLs            | CLOSING<br>BBLs | CHANGE<br>BBLs | PURCHASE<br>MBBLs | SALE<br>MBBLs | VOLUME<br>MBBLs     | VOL % | WEIGHT<br>MMLBS | WT % | LOADED<br>BBLs | OUTPUT<br>MBBLs | PRODUCT |
| RESIDUUMS             |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| BLENDED SLURRY        | 12322.                     | 10697.          | -1625.         | 0.0               | 0.0           | -1.6                | 0.0   | -0.7            | 0.0  | 0.             | -1.6            |         |
| LC SLURRY             | 45893.                     | 42702.          | -3191.         | 0.0               | 0.0           | -3.2                | 0.0   | -1.2            | 0.0  | 0.             | -3.2            |         |
| KOCH SLURRY           | 0.                         | 0.              | 0.             | 150.5             | 0.0           | -150.5              | -0.3  | -56.4           | -0.3 | 0.             | 0.0             |         |
| SOHIO SLURRY          | 26084.                     | 81090.          | 55006.         | 1094.7            | -43.7         | -1083.4             | -1.9  | -409.5          | -2.2 | 39817.         | 11.3            |         |
| PO/CITY SLURRY        | 0.                         | 0.              | 0.             | 309.2             | 0.0           | -309.2              | -0.5  | -114.8          | -0.6 | 0.             | 0.0             |         |
| OTHER SLURRY          | 23316.                     | 40701.          | 17385.         | 445.5             | 2.7           | -425.5              | -0.7  | -156.8          | -0.9 | 0.             | 20.0            |         |
| ANODE VAC RESID       | 193473.                    | 247297.         | 53824.         | 712.6             | 153.1         | -505.6              | -0.9  | -174.3          | -1.0 | 0.             | 206.9           |         |
| PYRO TAR              | 15464.                     | 121999.         | 106535.        | 622.2             | 70.6          | -495.8              | -0.9  | -187.2          | -1.0 | 0.             | 126.4           |         |
| THERMAL TAR           | 94747.                     | 125723.         | 30976.         | 0.0               | 209.3         | 240.3               | 0.4   | 91.9            | 0.5  | 0.             | 240.3           |         |
| MDL RESID             | 453190.                    | 148575.         | -304615.       | 0.0               | 187.6         | -117.0              | -0.2  | -44.9           | -0.2 | 0.             | -1.7            |         |
| SUBTOTAL RESIDUUMS    | 864489.                    | 818 84.         | -45705.        | 3334.6            | 579.6         | -2851.4             | -4.9  | -1053.9         | -5.8 | 39817.         | 483.2           |         |
| SLOP OILS             |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| ARO DISTILLATE        | 0.                         | 0.              | 0.             | 110.7             | 0.0           | -110.7              | -0.2  | -33.6           | -0.2 | 0.             | 0.0             |         |
| LOCP RETURNS          | 0.                         | 0.              | 0.             | 363.4             | 0.0           | -363.4              | -0.6  | -114.7          | -0.6 | 0.             | 0.0             |         |
| SLOP                  | 22802.                     | 7481.           | -15321.        | 0.8               | 0.0           | -16.1               | 0.0   | -4.3            | 0.0  | 0.             | -15.3           |         |
| SABINE HAD            | 20113.                     | 9213.           | -10900.        | 61.7              | 0.0           | -72.6               | -0.1  | -21.8           | -0.1 | 0.             | -10.9           |         |
| SUBTOTAL SLOP OILS    | 42915.                     | 16694.          | -26221.        | 536.6             | 0.0           | -562.8              | -1.0  | -174.5          | -1.0 | 0.             | -26.2           |         |
| TOTAL STKS IN PROCESS | 1358913.                   | 1127658.        | -231255.       | 3951.3            | 4725.1        | 382.3               | 0.7   | -67.1           | -0.4 | 39817.         | 4333.5          |         |
| HEAVY FUEL OILS       |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| NO. 1 HCGO            | 34540.                     | 64143.          | 29603.         | 18.1              | 882.3         | 933.6               | 1.6   | 356.2           | 2.0  | 0.             | 951.7           |         |
| LSR COK GAS OIL       | 0.                         | 0.              | 0.             | 0.0               | 64.9          | 64.9                | 0.1   | 24.5            | 0.1  | 0.             | 64.9            |         |
| INT COK GAS OIL       | 0.                         | 0.              | 0.             | 0.0               | 70.8          | 70.8                | 0.1   | 26.8            | 0.1  | 0.             | 70.8            |         |
| TOTAL HEAVY FUEL OILS | 34540.                     | 64143.          | 29603.         | 18.1              | 1018.0        | 1069.3              | 1.8   | 407.6           | 2.2  | 0.             | 1087.3          |         |
| 201 LCCHT             |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| POOL 5                |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| GRN HI S FUEL TONS    | 113551.                    | 137675.         | 24124.         | 0.0               | 669.5         | 693.6               | 1.2   | 1387.3          | 7.6  | 0.             | 693.6           |         |
| 201 COKE LOSS TONS    | 0.                         | 0.              | 0.             | 0.0               | 0.0           | 23.0                | 0.0   | 46.1            | 0.3  | 0.             | 23.0            |         |
| TOTAL 201 LCCHT       | 113551.                    | 137675.         | 24124.         | 0.0               | 669.5         | 716.7               | 1.2   | 1433.4          | 7.9  | 0.             | 716.7           |         |
| 202 BT - 1 SILOS      |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| POOL 1                |                            |                 |                |                   |               |                     |       |                 |      |                |                 |         |
| X COKE TONS           | 0.                         | 293.            | 293.           | 0.0               | 15.4          | 15.6                | 0.0   | 31.3            | 0.2  | 0.             | 15.6            |         |
| LS RECARB TONS        | 3410.                      | 240.            | -3170.         | 0.0               | 14.8          | 11.7                | 0.0   | 23.3            | 0.1  | 0.             | 11.7            |         |
| MS RECARB TONS        | 0.                         | 0.              | 0.             | 0.0               | 2.9           | 2.9                 | 0.0   | 5.9             | 0.0  | 0.             | 2.9             |         |
| SUBTOTAL POOL 1       | 3410.                      | 533.            | -2877.         | 0.0               | 33.1          | 30.2                | 0.1   | 60.5            | 0.3  | 0.             | 30.2            |         |

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|                        |      | YTD 1990 INVENTORY AND R/S |         |         |          |       | YTD 1990 PRODUCTION |       |        |      |        | NET    |        |
|------------------------|------|----------------------------|---------|---------|----------|-------|---------------------|-------|--------|------|--------|--------|--------|
|                        |      | OPENING                    | CLOSING | CHANGE  | PURCHASE | SALE  | VOLUME              | VOL % | WEIGHT | WT % | LOADED | OUTPUT | PRODUC |
|                        |      | BBLS                       | BBLS    | BBLS    | MBBLS    | MBBLS | MBBLS               |       | MMLBS  |      | BBLS   | MBBLS  |        |
| POOL 2                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| NORMAL PREMIUM         | TONS | 215.                       | 0.      | -215.   | 0.0      | 2.3   | 2.1                 | 0.0   | 4.1    | 0.0  | 0.     | 2.1    |        |
| INTR PREMIUM           | TONS | 0.                         | 0.      | 0.      | 0.0      | 13.2  | 13.2                | 0.0   | 24.5   | 0.1  | 0.     | 13.2   |        |
| SUBTOTAL POOL 2        |      | 215.                       | 0.      | -215.   | 0.0      | 15.4  | 15.2                | 0.0   | 28.6   | 0.2  | 0.     | 15.2   |        |
| POOL 3                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| NORMAL S RECARB        | TONS | 2291.                      | 4513.   | -2222.  | 0.0      | 10.9  | 13.2                | 0.0   | 26.3   | 0.1  | 0.     | 13.2   |        |
| 1% S RECARB            | TONS | 0.                         | 0.      | 0.      | 0.0      | 1.0   | 1.0                 | 0.0   | 2.0    | 0.0  | 0.     | 1.0    |        |
| TI COKE                | TONS | 2782.                      | 0.      | -2782.  | 0.0      | 5.8   | 3.0                 | 0.0   | 6.0    | 0.0  | 0.     | 3.0    |        |
| SUBTOTAL POOL 3        |      | 5073.                      | 4513.   | -560.   | 0.0      | 17.7  | 17.2                | 0.0   | 34.3   | 0.2  | 0.     | 17.2   |        |
| POOL 5                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| 202 COKE LOSS          | TONS | 0.                         | 0.      | 0.      | 0.0      | 0.0   | 1.0                 | 0.0   | 2.1    | 0.0  | 0.     | 1.0    |        |
| GRN HI S FUEL          | TONS | 0.                         | 2429.   | 2429.   | 0.0      | 0.0   | 2.4                 | 0.0   | 4.9    | 0.0  | 0.     | 2.4    |        |
| SUBTOTAL POOL 5        |      | 0.                         | 2429.   | 2429.   | 0.0      | 0.0   | 3.5                 | 0.0   | 7.0    | 0.0  | 0.     | 3.5    |        |
| TOTAL 202 BT - 1 SILOS |      | 8698.                      | 7475.   | -1223.  | 0.0      | 66.3  | 66.1                | 0.1   | 130.4  | 0.7  | 0.     | 66.1   |        |
| 203 PORT OF LC         |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| POOL 3                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| TI COKE                | TONS | 0.                         | 0.      | 0.      | 0.0      | 0.1   | 0.1                 | 0.0   | 0.2    | 0.0  | 0.     | 0.1    |        |
| POOL 4                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| GRN NORM PREMIUM       | TONS | 1436.                      | 2916.   | 1480.   | 0.0      | 0.0   | 1.5                 | 0.0   | 3.0    | 0.0  | 0.     | 1.5    |        |
| GRN LCH ANODE          | TONS | 17225.                     | 1565.   | -15660. | 0.0      | 0.0   | -15.7               | 0.0   | -31.3  | -0.2 | 0.     | -15.7  |        |
| GRN X COKE             | TONS | 502.                       | 3772.   | 3270.   | 0.0      | 0.0   | 3.3                 | 0.0   | 6.5    | 0.0  | 0.     | 3.3    |        |
| SUBTOTAL POOL 4        |      | 19163.                     | 8253.   | -10910. | 0.0      | 0.0   | -10.9               | 0.0   | -21.8  | -0.1 | 0.     | -10.9  |        |
| POOL 5                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| COKE FINES             | TONS | 0.                         | 24.     | 24.     | 0.0      | 0.0   | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 0.0    |        |
| 203 COKE LOSS          | TONS | 0.                         | 0.      | 0.      | 0.0      | 0.0   | 4.8                 | 0.0   | 9.5    | 0.1  | 0.     | 4.8    |        |
| GRN HI S FUEL          | TONS | 0.                         | 3624.   | 3624.   | 0.0      | 0.0   | 3.6                 | 0.0   | 7.2    | 0.0  | 0.     | 3.6    |        |
| SUBTOTAL POOL 5        |      | 0.                         | 3648.   | 3648.   | 0.0      | 0.0   | 8.4                 | 0.0   | 16.8   | 0.1  | 0.     | 8.4    |        |
| TOTAL 203 PORT OF LC   |      | 19163.                     | 11901.  | -7262.  | 0.0      | 0.1   | -2.4                | 0.0   | -4.8   | 0.0  | 0.     | -2.4   |        |
| 204 REFINERY           |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| POOL 2                 |      |                            |         |         |          |       |                     |       |        |      |        |        |        |
| NORMAL PREMIUM         | TONS | 1451.                      | 0.      | -1451.  | 0.0      | 0.0   | -1.5                | 0.0   | -2.9   | 0.0  | 0.     | -1.5   |        |

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|                    |      | YTD 1990 INVENTORY AND R/S |         |        |          |       | YTD 1990 PRODUCTION |       |        |      |        | NET    |         |
|--------------------|------|----------------------------|---------|--------|----------|-------|---------------------|-------|--------|------|--------|--------|---------|
|                    |      | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE  | VOLUME              | VOL % | WEIGHT | WT % | LOADED | OUTPUT | PRODUCT |
|                    |      | BBLS                       | BBLS    | BBLS   | MBBLS    | MBBLS | MBBLS               |       | MMLBS  |      | BBLS   | MBBLS  |         |
| POOL 3             |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| LCH ANODE          | TONS | 1.                         | 826.    | 825.   | 1.5      | 1.5   | 0.8                 | 0.0   | 1.6    | 0.0  | 0.     | 2.4    |         |
| II COKE            | TONS | 2360                       | 0.      | -2360. | 0.0      | -4.6  | -7.0                | 0.0   | -14.0  | -0.1 | 0.     | -7.0   |         |
| SUBTOTAL POOL 3    |      | 2361.                      | 826.    | -1535. | 1.5      | -3.1  | -6.2                | 0.0   | -12.4  | -0.1 | 0.     | -4.6   |         |
| POOL 4             |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| GRN NORM PREMIUM   | TONS | 1.                         | 1.      | 0.     | 0.0      | 0.0   | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 0.0    |         |
| GRN LS RECARB      | TONS | 1.                         | 1.      | 0.     | 0.0      | 0.0   | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 0.0    |         |
| GRN NORM RECARB    | TONS | 1140.                      | 3661.   | 2521.  | 0.0      | 0.0   | 2.5                 | 0.0   | 5.0    | 0.0  | 0.     | 2.5    |         |
| GRN MS RECARB      | TONS | 1.                         | 1.      | 0.     | 0.0      | 0.0   | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 0.0    |         |
| GRN INIR PREMIUM   | TONS | 1.                         | 0.      | -1.    | 0.0      | 0.0   | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 0.0    |         |
| GRN LCH ANODE      | TONS | 2274.                      | 864.    | -1410. | 0.0      | 0.0   | -1.4                | 0.0   | -2.8   | 0.0  | 0.     | -1.4   |         |
| GRN X COKE         | TONS | 5141.                      | 6011.   | 870.   | 0.0      | 0.0   | 0.9                 | 0.0   | 1.7    | 0.0  | 0.     | 0.9    |         |
| GRN PC ANODE       | TONS | 0.                         | 0.      | 0.     | 33.2     | 0.0   | -33.2               | -0.1  | -66.4  | -0.4 | 0.     | 0.0    |         |
| SUBTOTAL POOL 4    |      | 8559.                      | 10539.  | 1980.  | 33.2     | 0.0   | -31.2               | -0.1  | -62.5  | -0.3 | 0.     | 2.0    |         |
| POOL 5             |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| GRN HI S FUEL      | TONS | 1.                         | 2126.   | 2125.  | 0.0      | 205.2 | 207.3               | 0.4   | 414.7  | 2.3  | 0.     | 207.3  |         |
| COKE FINES         | TONS | 150.                       | 0.      | -150.  | 0.0      | -8.9  | -8.8                | 0.0   | 17.6   | -0.1 | 0.     | 8.8    |         |
| 204 COKE LOSS      | TONS | 0.                         | 0.      | 0.     | 0.0      | 0.0   | 17.7                | 0.0   | 35.3   | 0.2  | 0.     | 17.7   |         |
| SUBTOTAL POOL 5    |      | 151.                       | 2126.   | 1975.  | 0.0      | 214.1 | 233.8               | 0.4   | 467.6  | 2.6  | 0.     | 233.8  |         |
| TOTAL 204 REFINERY |      | 12522                      | 13491   | 969    | 34.8     | 211.0 | 194.9               | 0.3   | 389.9  | 2.1  | 0.     | 229.7  |         |
| 206 TRANSPORT      |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| POOL 1             |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| X COKE             | TONS | 1549                       | 2576    | 1027   | 0.0      | 39.9  | 40.9                | 0.1   | 81.9   | 0.4  | 0.     | 40.9   |         |
| LS RECARB          | TONS | 805.                       | 0.      | -805.  | 0.0      | 4.3   | 3.4                 | 0.0   | 6.9    | 0.0  | 0.     | 3.4    |         |
| MS RECARB          | TONS | 2881.                      | 0.      | -2881. | 0.0      | 1.3   | -1.5                | 0.0   | -3.1   | 0.0  | 0.     | -1.5   |         |
| IS RECARB          | TONS | 0.                         | 0.      | 0.     | 0.0      | 2.9   | 2.9                 | 0.0   | 5.8    | 0.0  | 0.     | 2.9    |         |
| SUBTOTAL POOL 1    |      | 5235                       | 2576    | -2659  | 0.0      | 48.4  | 45.7                | 0.1   | 91.5   | 0.5  | 0.     | 45.7   |         |
| POOL 2             |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| NORMAL PREMIUM     | TONS | 1425.                      | 1414.   | -11.   | 0.0      | 29.3  | 29.3                | 0.1   | 58.6   | 0.3  | 0.     | 29.3   |         |
| INIR PREMIUM       | TONS | 1013.                      | 0.      | -1013. | 0.0      | 0.0   | -1.0                | 0.0   | -2.0   | 0.0  | 0.     | -1.0   |         |
| SUBTOTAL POOL 2    |      | 2438.                      | 1414.   | -1024. | 0.0      | 29.3  | 28.3                | 0.0   | 56.5   | 0.3  | 0.     | 28.3   |         |
| POOL 3             |      |                            |         |        |          |       |                     |       |        |      |        |        |         |
| NORMAL S RECARB    | TONS | 643.                       | 178.    | -465.  | 0.0      | 0.9   | 0.4                 | 0.0   | 0.9    | 0.0  | 0.     | 0.4    |         |
| 1% S RECARB        | TONS | 51.                        | 0.      | -51.   | 0.0      | 0.0   | -0.1                | 0.0   | -0.1   | 0.0  | 0.     | -0.1   |         |
| LCH ANODE          | TONS | 0.                         | 1405.   | 1405.  | 0.0      | 1.4   | 2.8                 | 0.0   | 5.6    | 0.0  | 0.     | 2.8    |         |
| HIGH SULFUR        | TONS | 95.                        | 0.      | -95.   | 0.0      | 0.3   | 0.2                 | 0.0   | 0.4    | 0.0  | 0.     | 0.2    |         |
| II COKE            | TONS | 851.                       | 0.      | -851.  | 0.0      | 14.7  | 13.9                | 0.0   | 27.7   | 0.2  | 0.     | 13.9   |         |

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## CONOCO INC.-LAKE CHARLES REFINERY

ME03 - NET REFINERY BALANCE

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|                        |      | YTD 1990 INVENTORY AND R/S |         |        |          |       | YTD 1990 PRODUCTION |       |        |      | NET    |        |
|------------------------|------|----------------------------|---------|--------|----------|-------|---------------------|-------|--------|------|--------|--------|
|                        |      | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE  | VOLUME              | VOL % | WEIGHT | WT % | LOADED | OUTPUT |
|                        |      | BBLS                       | BBLS    | BBLS   | MBBLS    | MBBLS | MBBLS               |       | MMLBS  |      | BBLS   | MBBLS  |
| PC ANODE               | TONS | 0.                         | 0.      | 0.     | 0.0      | 4.8   | 4.8                 | 0.0   | 9.6    | 0.1  | 0.     | 4.8    |
| SUBTOTAL POOL 3        |      | 1640.                      | 1583.   | -57.   | 0.0      | 22.1  | 22.1                | 0.0   | 44.1   | 0.2  | 0.     | 22.1   |
| POOL 5                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| 206 COKE LOSS          | TONS | 0.                         | 0.      | 0.     | 0.0      | 0.0   | 0.1                 | 0.0   | 0.3    | 0.0  | 0.     | 0.1    |
| GRN HI S FUEL          | TONS | 0.                         | 3638.   | 3638.  | 0.0      | 0.0   | 3.6                 | 0.0   | 7.3    | 0.0  | 0.     | 3.6    |
| SUBTOTAL POOL 5        |      | 0.                         | 3638.   | 3638.  | 0.0      | 0.0   | 3.8                 | 0.0   | 7.5    | 0.0  | 0.     | 3.8    |
| TOTAL 206 TRANSPORT    |      | 9313.                      | 9211.   | -102.  | 0.0      | 99.8  | 99.8                | 0.2   | 199.7  | 1.1  | 0.     | 99.8   |
| 207 PORT ART TML       |      |                            |         |        |          |       |                     |       |        |      |        |        |
| POOL 3                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| PC RECARB              | TONS | 0.                         | 0.      | 0.     | 0.0      | 7.2   | 7.2                 | 0.0   | 14.3   | 0.1  | 0.     | 7.2    |
| TI COKE                | TONS | 4350.                      | 0.      | -4350. | 0.0      | 8.9   | 4.6                 | 0.0   | 9.2    | 0.1  | 0.     | 4.6    |
| LCH ANODE              | TONS | 0.                         | 0.      | 0.     | 0.0      | 5.5   | 5.5                 | 0.0   | 11.0   | 0.1  | 0.     | 5.5    |
| PC ANODE               | TONS | 0.                         | 0.      | 0.     | 0.0      | 1.5   | 1.5                 | 0.0   | 3.1    | 0.0  | 0.     | 1.5    |
| SUBTOTAL POOL 3        |      | 4350.                      | 0.      | -4350. | 0.0      | 23.1  | 18.8                | 0.0   | 37.6   | 0.2  | 0.     | 18.8   |
| POOL 4                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| GRN PC ANODE           | TONS | 0.                         | 0.      | 0.     | 0.0      | 0.7   | 0.7                 | 0.0   | 1.3    | 0.0  | 0.     | 0.7    |
| POOL 5                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| 207 COKE LOSS          | TONS | 0.                         | 0.      | 0.     | 0.0      | 0.0   | -5.1                | 0.0   | -10.2  | -0.1 | 0.     | -5.1   |
| TOTAL 207 PORT ART TML |      | 4350.                      | 0.      | -4350. | 0.0      | 23.9  | 14.4                | 0.0   | 28.9   | 0.2  | 0.     | 14.4   |
| 208 SCHIO TML          |      |                            |         |        |          |       |                     |       |        |      |        |        |
| POOL 3                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| LCH ANODE              | TONS | 1162.                      | 166.    | -996.  | 0.0      | 39.1  | 38.1                | 0.1   | 76.2   | 0.4  | 0.     | 38.1   |
| 1% S RECARB            | TONS | 378.                       | 0.      | -378.  | 0.0      | 1.0   | 0.6                 | 0.0   | 1.3    | 0.0  | 0.     | 0.6    |
| SUBTOTAL POOL 3        |      | 1540.                      | 166.    | -1374. | 0.0      | 40.1  | 38.7                | 0.1   | 77.5   | 0.4  | 0.     | 38.7   |
| POOL 4                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| GRN PC ANODE           | TONS | 0.                         | 1556.   | 1556.  | 1.6      | 0.0   | 0.0                 | 0.0   | 0.0    | 0.0  | 0.     | 1.6    |
| POOL 5                 |      |                            |         |        |          |       |                     |       |        |      |        |        |
| 208 COKE LOSS          | TONS | 0.                         | 0.      | 0.     | 0.0      | 0.0   | 0.9                 | 0.0   | 1.8    | 0.0  | 0.     | 0.9    |
| TOTAL 208 SCHIO TML    |      | 1540.                      | 1722.   | 182.   | 1.6      | 40.1  | 39.6                | 0.1   | 79.3   | 0.4  | 0.     | 41.2   |

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| ----- YTD 1990 INVENTORY AND R/S ----- |      |         |         |        |          |       |        |       |        |      |        |       |
|----------------------------------------|------|---------|---------|--------|----------|-------|--------|-------|--------|------|--------|-------|
| ----- YTD 1990 PRODUCTION -----        |      |         |         |        |          |       |        |       |        |      |        |       |
|                                        |      | OPENING | CLOSING | CHANGE | PURCHASE | SALE  | VOLUME | VOL % | WEIGHT | WT % | LOADED | NET   |
|                                        |      | BBLs    | BBLs    | BBLs   | MBBLs    | MBBLs | MBBLs  |       | MMBLS  |      | BBLs   | MBBLs |
| -----                                  |      |         |         |        |          |       |        |       |        |      |        |       |
| 11 BP TERMINAL                         |      |         |         |        |          |       |        |       |        |      |        |       |
| POOL 5                                 |      |         |         |        |          |       |        |       |        |      |        |       |
| GRN HI S FUEL                          | TONS | 2484.   | 0.      | -2484. | 0.0      | 0.0   | -2.5   | 0.0   | -5.0   | 0.0  | 0.     | -2.5  |
| 12 VENCO TML                           |      |         |         |        |          |       |        |       |        |      |        |       |
| POOL 5                                 |      |         |         |        |          |       |        |       |        |      |        |       |
| 212 COKE LOSS                          | TONS | 0.      | 0.      | 0.     | 0.0      | 0.0   | -1.0   | 0.0   | -1.9   | 0.0  | 0.     | -1.0  |
| POOL 3                                 |      |         |         |        |          |       |        |       |        |      |        |       |
| TI COKE                                | TONS | 0.      | 0.      | 0.     | 0.0      | 9.5   | 9.5    | 0.0   | 18.9   | 0.1  | 0.     | 9.5   |
| TOTAL 212 VENCO TML                    |      | 0.      | 0.      | 0.     | 0.0      | 9.5   | 8.5    | 0.0   | 17.0   | 0.1  | 0.     | 8.5   |
| -----                                  |      |         |         |        |          |       |        |       |        |      |        |       |
| SULFUR PRODUCTS                        |      |         |         |        |          |       |        |       |        |      |        |       |
| SULEUR                                 |      |         |         |        |          |       |        |       |        |      |        |       |
| SULFUR-TONS                            | TONS | 375.    | 763.    | 388.   | 0.0      | 83.5  | 83.9   | 0.1   | 167.8  | 0.9  | 270.   | 83.9  |
| SULFUR AS H2S                          | TONS | 0.      | 0.      | 0.     | 0.0      | 22.4  | 22.4   | 0.0   | 44.9   | 0.2  | 0.     | 22.4  |
| SUBTOTAL SULFUR                        |      | 375.    | 763.    | 388.   | 0.0      | 105.9 | 106.3  | 0.2   | 212.7  | 1.2  | 270.   | 106.3 |
| -----                                  |      |         |         |        |          |       |        |       |        |      |        |       |
| FINISHED ACID                          |      |         |         |        |          |       |        |       |        |      |        |       |
| 98% ACID                               | 100% | 3214.   | 3471.   | 257.   | 1.7      | 2.6   | 1.2    | 0.0   | 2.4    | 0.0  | 0.     | 2.9   |
| ACID CONSUMED                          | 100% | 0.      | 0.      | 0.     | 0.0      | 0.3   | 0.3    | 0.0   | 0.7    | 0.0  | 0.     | 0.3   |
| SUBTOTAL FINISHED ACID                 |      | 3214.   | 3471.   | 257.   | 1.7      | 2.9   | 1.5    | 0.0   | 3.1    | 0.0  | 0.     | 3.2   |
| -----                                  |      |         |         |        |          |       |        |       |        |      |        |       |
| SPENT ACID                             |      |         |         |        |          |       |        |       |        |      |        |       |
| AK SPT ACID                            | 100% | 770.    | 845.    | 75.    | 0.0      | 17.9  | 17.9   | 0.0   | 35.9   | 0.2  | 85.    | 17.9  |
| TOTAL SULFUR PRODUCTS                  |      | 4359.   | 5079.   | 720.   | 1.7      | 126.7 | 125.8  | 0.2   | 251.6  | 1.4  | 355.   | 127.5 |
| -----                                  |      |         |         |        |          |       |        |       |        |      |        |       |
| HYDROGEN                               |      |         |         |        |          |       |        |       |        |      |        |       |
| VISTA EXCHANGE                         |      |         |         |        |          |       |        |       |        |      |        |       |
| VISTA IMPORT H2                        | FOE  | 0.      | 0.      | 0.     | 439.9    | 0.0   | -439.9 | -0.8  | -75.9  | -0.4 | 0.     | 0.0   |
| FUEL TO VISTA                          | FOE  | 0.      | 0.      | 0.     | 0.0      | 379.1 | 379.1  | 0.6   | 105.0  | 0.6  | 0.     | 379.1 |
| SUBTOTAL VISTA EXCHANGE                |      | 0.      | 0.      | 0.     | 439.9    | 379.1 | -60.8  | -0.1  | 29.1   | 0.2  | 0.     | 379.1 |
| -----                                  |      |         |         |        |          |       |        |       |        |      |        |       |
| HYDROGEN                               |      |         |         |        |          |       |        |       |        |      |        |       |
| CITIES H2                              | FOE  | 0.      | 0.      | 0.     | 0.0      | 333.6 | 333.6  | 0.6   | 49.6   | 0.3  | 0.     | 333.6 |
| JUPITER HYDROGEN                       | FOE  | 0.      | 0.      | 0.     | 536.5    | 0.0   | -536.5 | -0.9  | -57.7  | -0.3 | 0.     | 0.0   |
| EXPORT VISTA H2                        | FOE  | 0.      | 0.      | 0.     | 0.0      | 37.6  | 37.6   | 0.1   | 4.4    | 0.0  | 0.     | 37.6  |
| SUBTOTAL HYDROGEN                      |      | 0.      | 0.      | 0.     | 536.5    | 371.2 | -165.3 | -0.3  | -3.7   | 0.0  | 0.     | 371.2 |
| TOTAL HYDROGEN                         |      | 0.      | 0.      | 0.     | 976.4    | 750.3 | -226.1 | -0.4  | 25.4   | 0.1  | 0.     | 750.3 |

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|                           | -----    | YTD 1990 | INVENTORY AND R/S | -----    | -----   | YTD 1990 | PRODUCTION | -----   |       | NET    |         |
|---------------------------|----------|----------|-------------------|----------|---------|----------|------------|---------|-------|--------|---------|
|                           | OPENING  | CLOSING  | CHANGE            | PURCHASE | SALE    | VOLUME   | VOL %      | WEIGHT  | WT %  | LOADED | OUTPUT  |
|                           | BBLs     | BBLs     | BBLs              | MBBLs    | MBBLs   | MBBLs    |            | MMLBS   |       | BBLs   | MBBLs   |
| MISCELLANEOUS             |          |          |                   |          |         |          |            |         |       |        |         |
| CIT CON EXCHANGE          |          |          |                   |          |         |          |            |         |       |        |         |
| TOPPED CRUDE              | 0.       | 0.       | 0.                | 0.0      | 4461.8  | 4461.8   | 7.7        | 1427.0  | 7.8   | 0.     | 4461.8  |
| CC GAS OIL                | 0.       | 0.       | 0.                | 1095.2   | 0.0     | -1095.2  | -1.9       | -329.5  | -1.8  | 0.     | 0.0     |
| CC FURFURAL EXT           | 0.       | 0.       | 0.                | 722.9    | 0.0     | -722.9   | -1.2       | -241.3  | -1.3  | 0.     | 0.0     |
| CC INTERMED EXT           | 0.       | 0.       | 0.                | 293.1    | 0.0     | -293.1   | -0.5       | -98.1   | -0.5  | 0.     | 0.0     |
| CC CR. NAPHTHA            | 0.       | 0.       | 0.                | 128.7    | 153.8   | 25.1     | 0.0        | 7.8     | 0.0   | 0.     | 153.8   |
| CC BR. STK. EXT           | 0.       | 0.       | 0.                | 188.5    | 0.0     | -188.5   | -0.3       | -67.3   | -0.4  | 0.     | 0.0     |
| CC RESIDUUM               | 0.       | 0.       | 0.                | 884.8    | 0.0     | -884.8   | -1.5       | -302.1  | -1.7  | 0.     | 0.0     |
| SUBTOTAL CIT CON EXCHANGE | 0.       | 0.       | 0.                | 3313.2   | 4615.6  | 1302.5   | 2.2        | 396.6   | 2.2   | 0.     | 4615.6  |
| FUEL PRODUCTION           |          |          |                   |          |         |          |            |         |       |        |         |
| EXPT FUEL LASHRE FOE      | 0.       | 0.       | 0.                | 0.0      | 355.4   | 355.4    | 0.6        | 96.3    | 0.5   | 0.     | 355.4   |
| GILLIS FUEL FOE           | 0.       | 0.       | 0.                | 574.0    | 0.0     | -574.0   | -1.0       | -156.7  | -0.9  | 0.     | 0.0     |
| FUEL CONSUMED FOE         | 0.       | 0.       | 0.                | 0.0      | 2667.5  | 2667.5   | 4.6        | 723.5   | 4.0   | 0.     | 2667.5  |
| UNRES FUEL LOSS FOE       | 0.       | 0.       | 0.                | 0.0      | 0.0     | 182.2    | 0.3        | 47.4    | 0.3   | 0.     | 182.2   |
| SUBTOTAL FUEL PRODUCTION  | 0.       | 0.       | 0.                | 574.0    | 3022.9  | 2631.1   | 4.5        | 710.5   | 3.9   | 0.     | 3205.1  |
| LOSSES                    |          |          |                   |          |         |          |            |         |       |        |         |
| REF PROC LOSS             | 0.       | 0.       | 0.                | 0.0      | 0.0     | 3735.9   | 6.4        | 481.4   | 2.6   | 0.     | 3735.9  |
| SULFUR PROC LOSS TONS     | 0.       | 0.       | 0.                | 0.0      | 0.0     | -4.8     | 0.0        | -9.7    | -0.1  | 0.     | -4.8    |
| COKE MOISTURE TONS        | 0.       | 0.       | 0.                | 0.0      | 0.0     | -75.6    | -0.1       | -151.2  | -0.8  | 0.     | -75.6   |
| COKE CONSUMED TONS        | 0.       | 0.       | 0.                | 0.0      | 0.0     | 159.9    | 0.3        | 319.9   | 1.8   | 0.     | 159.9   |
| TOTAL FLARE FOE           | 0.       | 0.       | 0.                | 0.0      | 0.0     | 274.6    | 0.5        | 87.9    | 0.5   | 0.     | 274.6   |
| UNRES CHG LOSS            | 0.       | 0.       | 0.                | 0.0      | 0.0     | 0.0      | 0.0        | 12.2    | 0.1   | 0.     | 0.0     |
| UNRES PROD LOSS           | 0.       | 0.       | 0.                | 0.0      | 0.0     | -2158.9  | -3.7       | -444.7  | -2.4  | 0.     | -2158.9 |
| ATMOSPHERE LOSS           | 0.       | 0.       | 0.                | 0.0      | 0.0     | 20.6     | 0.0        | 6.5     | 0.0   | 0.     | 20.6    |
| SUBTOTAL LOSSES           | 0.       | 0.       | 0.                | 0.0      | 0.0     | 1951.7   | 3.3        | 302.2   | 1.7   | 0.     | 1951.7  |
| TOTAL MISCELLANEOUS       | 0.       | 0.       | 0.                | 3887.1   | 7638.5  | 5885.1   | 10.1       | 1409.3  | 7.7   | 0.     | 9772.2  |
| TOTAL PRODUCTS            | 2772664. | 3130752. | 358088.           | 15086.3  | 71041.2 | 58322.9  | 100.0      | 18229.2 | 100.0 | 42839. | 73409.2 |

## \*\*\*PROCESSING SUPPLIES\*\*\*

|                     |     |        |        |         |     |      |     |     |     |     |     |
|---------------------|-----|--------|--------|---------|-----|------|-----|-----|-----|-----|-----|
| MISCELLANEOUS       |     |        |        |         |     |      |     |     |     |     |     |
| PROC. SUPPLIES      |     |        |        |         |     |      |     |     |     |     |     |
| TEL                 | LBS | 59900. | 12190. | -47710. | 0.0 | 45.9 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| MMT                 | LBS | 15550. | 0.     | -15550. | 0.0 | 10.7 | 4.8 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL MISCELLANEOUS |     | 75450. | 12190. | -63260. | 0.0 | 56.6 | 6.6 | 0.0 | 0.0 | 0.0 | 0.0 |

## VOLUME UNITS OF MEASUREMENT:

|                                   |       |
|-----------------------------------|-------|
| BARREL FUEL OIL EQUIVALENT (BFOE) | FOE   |
| EQUIVALENT LIQUID BARRELS         | ELB   |
| SHORT TONS                        | TONS  |
| TONS 100% SULFURIC ACID           | 100%  |
| GALLONS                           | GALS  |
| POUNDS                            | LBS   |
| THOUSANDS OF POUNDS               | M.LBS |

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ME03 -

NET NGP BALANCE

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|                       | YTD 1990 INVENTORY AND R/S |                 |                |                   |               | YTD 1990 PRODUCTION |       |                 |       |                | NET<br>OUTPUT<br>PRODUCT |
|-----------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|-------|-----------------|-------|----------------|--------------------------|
|                       | OPENING<br>BBLs            | CLOSING<br>BBLs | CHANGE<br>BBLs | PURCHASE<br>MBBLs | SALE<br>MBBLs | VOLUME<br>MBBLs     | VOL % | WEIGHT<br>MMLBS | WT %  | LOADED<br>BBLs |                          |
| *** CHARGES ****      |                            |                 |                |                   |               |                     |       |                 |       |                |                          |
| NAT GAS LIQUIDS       |                            |                 |                |                   |               |                     |       |                 |       |                |                          |
| FIELD PBC             | 10810                      | 5215            | -5095          | 426.3             | 0.0           | 431.4               | 100.0 | 97.3            | 100.0 | 0              | 0.0                      |
| TOTAL CHARGES         | 10810                      | 5215            | -5095          | 426.3             | 0.0           | 431.4               | 100.0 | 97.3            | 100.0 | 0              | 0.0                      |
| *** PRODUCTS ****     |                            |                 |                |                   |               |                     |       |                 |       |                |                          |
| NAT GAS LIQUIDS       |                            |                 |                |                   |               |                     |       |                 |       |                |                          |
| PROPANE               | 3866                       | 3462            | -404           | 938.2             | 938.6         | 0.0                 | 0.0   | 0.0             | 0.0   | 0              | 938.2                    |
| BUTANE                | 14544                      | 7849            | -6695          | 765.4             | 790.1         | 18.0                | 4.2   | 3.7             | 3.8   | 0              | 783.4                    |
| ISOBUTANE             | 7566                       | 17412           | 9846           | 610.4             | 600.8         | 0.3                 | 0.1   | 0.1             | 0.1   | 0              | 610.7                    |
| ISOPENTANE            | 0                          | 0               | 0              | 0.0               | 112.8         | 112.8               | 26.2  | 24.6            | 25.3  | 0              | 112.8                    |
| CASINGHEAD GASO       | 0                          | 0               | 0              | 0.0               | 300.1         | 300.1               | 69.6  | 68.8            | 70.8  | 0              | 300.1                    |
| TOTAL NAT GAS LIQUIDS | 25976                      | 28723           | 2747           | 2314.0            | 2742.4        | 431.2               | 100.0 | 97.2            | 100.0 | 0              | 2745.2                   |
| TOTAL PRODUCTS        | 25976                      | 28723           | 2747           | 2314.0            | 2742.4        | 431.4               | 100.0 | 97.3            | 100.0 | 0              | 2745.4                   |

\*\*\*PROCESSING SUPPLIES\*\*\*

VOLUME UNITS OF MEASUREMENT:

|                                   |      |
|-----------------------------------|------|
| BARREL FUEL OIL EQUIVALENT (BFOE) | FDE  |
| EQUIVALENT LIQUID BARRELS         | ELB  |
| SHORT TONS                        | TONS |
| TONS 100% SULFURIC ACID           | 100% |
| GALLONS                           | GALS |
| POUNDS                            | LBS  |
| THOUSANDS OF POUNDS               | MLBS |

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CONOCO INC.-LAKE CHARLES REFINERY

ME03 - NET VISTA BALANCE

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|                       | YTD 1990 INVENTORY AND R/S |         |         |          |       | YTD 1990 PRODUCTION |       |        |      |      | LOADED | NET | PRODUCT |
|-----------------------|----------------------------|---------|---------|----------|-------|---------------------|-------|--------|------|------|--------|-----|---------|
|                       | OPENING                    | CLOSING | CHANGE  | PURCHASE | SALE  | VOLUME              | VOL % | WEIGHT | WT % |      | OUTPUT |     |         |
|                       | BBLs                       | BBLs    | BBLs    | MBBLs    | MBBLs | MBBLs               |       | MMLBS  |      | BBLs | MBBLs  |     |         |
| **** PRODUCTS ****    |                            |         |         |          |       |                     |       |        |      |      |        |     |         |
| VISTA CHEMICALS       |                            |         |         |          |       |                     |       |        |      |      |        |     |         |
| VISTA RAFFINATE       | 0.                         | 0.      | 0.      | 797.6    | 797.6 | 0.0                 | 0.0   | 0.0    | 0.0  | 0.   | 797.6  |     |         |
| CRUDE PARAFFIN        | 35679.                     | 16573.  | -19106. | 0.0      | 0.0   | -19.1               | 0.0   | -5.0   | 0.0  | 0.   | -19.1  |     |         |
| LIGHT PARAFFIN        | 24383.                     | 49380.  | 24997.  | 0.0      | 0.0   | 25.0                | 0.0   | 6.4    | 0.0  | 0.   | 25.0   |     |         |
| HEAVY PARAFFIN        | 28692.                     | 12067.  | -16625. | 0.0      | 0.0   | -16.6               | 0.0   | -4.4   | 0.0  | 0.   | -16.6  |     |         |
| ALFOL 610             | 11125.                     | 1249.   | -9876.  | 0.0      | 0.0   | -9.9                | 0.0   | -2.8   | 0.0  | 0.   | -9.9   |     |         |
| ALFOL 810             | 3981.                      | 1103.   | -2878.  | 0.0      | 0.0   | -2.9                | 0.0   | -0.8   | 0.0  | 0.   | -2.9   |     |         |
| LAB 550               | 19110.                     | 196275. | 177165. | 0.0      | 0.0   | 177.2               | 0.0   | 51.7   | 0.0  | 0.   | 177.2  |     |         |
| METHANOL              | 151600.                    | 453334. | 301734. | 0.0      | 0.0   | 301.7               | 0.0   | 1.9    | 0.0  | 0.   | 301.7  |     |         |
|                       | GALS                       |         |         |          |       |                     |       |        |      |      |        |     |         |
| TOTAL VISTA CHEMICALS | 274570.                    | 729981. | 455411. | 797.6    | 797.6 | 455.4               | 0.0   | 47.1   | 0.0  | 0.   | 1253.0 |     |         |
| MISCELLANEOUS         |                            |         |         |          |       |                     |       |        |      |      |        |     |         |
| LOSSES                |                            |         |         |          |       |                     |       |        |      |      |        |     |         |
| VISTA PROC LOSS       | 0.                         | 0.      | 0.      | 0.0      | 0.0   | -7.0                | 0.0   | -2.5   | 0.0  | 0.   | -7.0   |     |         |
| VISTA PROD LOSS       | 0.                         | 0.      | 0.      | 0.0      | 0.0   | -448.4              | 0.0   | -44.5  | 0.0  | 0.   | -448.4 |     |         |
| TOTAL MISCELLANEOUS   | 0.                         | 0.      | 0.      | 0.0      | 0.0   | -455.4              | 0.0   | -47.1  | 0.0  | 0.   | -455.4 |     |         |
| TOTAL PRODUCTS        | 274570.                    | 729981. | 455411. | 797.6    | 797.6 | 0.0                 | 0.0   | 0.0    | 0.0  | 0.   | 797.6  |     |         |

\*\*\*PROCESSING SUPPLIES\*\*\*

VOLUME UNITS OF MEASUREMENT:

|                                   |      |
|-----------------------------------|------|
| BARREL FUEL OIL EQUIVALENT (BFOE) | FOE  |
| EQUIVALENT LIQUID BARRELS         | ELB  |
| SHORT TONS                        | TONS |
| TONS 100% SULFURIC ACID           | 100% |
| GALLONS                           | GALS |
| POUNDS                            | LBS  |
| THOUSANDS OF POUNDS               | MLBS |

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|                        |               | YTD 1990 INVENTORY AND R/S |         |        |          |        | YTD 1990 PRODUCTION |        |        |      |        | NET    |         |
|------------------------|---------------|----------------------------|---------|--------|----------|--------|---------------------|--------|--------|------|--------|--------|---------|
|                        |               | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE   | VOLUME              | VOL %  | WEIGHT | WT % | LOADED | OUTPUT | PRODUCT |
|                        |               | BBLs                       | BBLs    | BBLs   | MBBLs    | MBBLs  | MBBLs               |        | MMLBS  |      | BBLs   | MBBLs  |         |
| ***                    | CHARGES       | ****                       |         |        |          |        |                     |        |        |      |        |        |         |
| CONOCO DRAG RDCR       |               |                            |         |        |          |        |                     |        |        |      |        |        |         |
|                        | CDR RAFFINATE | GALS                       | 114640  | 37538  | -77102   | 3736.5 | 82.4                | 3731.2 | 91.6   | 21.8 | 91.1   | 0      | 0.0     |
|                        | DECENE        | GALS                       | 33425   | 38334  | 4909     | 332.0  | 0.0                 | 327.1  | 8.0    | 2.1  | 8.6    | 0      | 0.0     |
|                        | ETHER         | GALS                       | 333     | 380    | 47       | 0.6    | 0.0                 | 0.6    | 0.0    | 0.0  | 0.0    | 0      | 0.0     |
|                        | VAN LUBE      | GALS                       | 245     | 93     | -152     | 1.2    | 0.0                 | 1.3    | 0.0    | 0.0  | 0.0    | 0      | 0.0     |
|                        | DODECENE      | GALS                       | 0       | 22     | 22       | 3.3    | 0.0                 | 3.2    | 0.1    | 0.0  | 0.1    | 0      | 0.0     |
|                        | DIBAC         | GALS                       | 994     | 580    | -414     | 3.5    | 0.0                 | 3.9    | 0.1    | 0.0  | 0.1    | 0      | 0.0     |
|                        | TITANIUM CL3  | LBS                        | 2190    | 2174   | -16      | 5.2    | 0.0                 | 5.2    | 0.1    | 0.0  | 0.0    | 0      | 0.0     |
|                        | HEXANOL       | GALS                       | 1639    | 1639   | 0        | 0.0    | 0.0                 | 0.0    | 0.0    | 0.0  | 0.0    | 0      | 0.0     |
| TOTAL CONOCO DRAG RDCR |               |                            | 153466  | 80760  | -72706   | 4082.2 | 82.4                | 4072.5 | 100.0  | 23.9 | 100.0  | 0      | 0.0     |
| TOTAL CHARGES          |               |                            | 153466  | 80760  | -72706   | 4082.2 | 82.4                | 4072.5 | 100.0  | 23.9 | 100.0  | 0      | 0.0     |

| *** PRODUCTS ****      |        |        |        |       |        |        |        |       |       |       |        |        |  |
|------------------------|--------|--------|--------|-------|--------|--------|--------|-------|-------|-------|--------|--------|--|
| CONOCO DRAG RDCR       |        |        |        |       |        |        |        |       |       |       |        |        |  |
| DRAG REDUCR 102M GALS  | 331829 | 337335 | 5506   | 79.3  | 3971.8 | 3898.0 | 95.7   | 26.5  | 110.6 | 0     | 3977.3 |        |  |
| DRAG REDUCR 102S GALS  | 1      | 1      | 0      | 0.0   | 0.0    | 0.0    | 0.0    | 0.0   | 0.0   | 0     | 0.0    |        |  |
| DRAG REDUCER T/R GALS  | 52386  | 66591  | 14205  | 0.0   | 82.9   | 97.1   | 2.4    | 0.6   | 2.4   | 0     | 97.1   |        |  |
| DRAG REDUCER 203 GALS  | 0      | 75464  | 75464  | 0.0   | 12.0   | 87.5   | 2.1    | 0.1   | 0.3   | 0     | 87.5   |        |  |
| TOTAL CONOCO DRAG RDCR |        | 384216 | 479391 | 95175 | 79.3   | 4066.6 | 4082.5 | 100.2 | 27.1  | 113.3 | 0      | 4161.8 |  |
| MISCELLANEOUS LOSSES   |        |        |        |       |        |        |        |       |       |       |        |        |  |
| CDR PROC LOSS GALS     | 0      | 0      | 0      | 0.0   | 0.0    | 17.7   | 0.4    | 0.0   | 0.1   | 0     | 17.7   |        |  |
| UNRES CHG LOSS GALS    | 0      | 0      | 0      | 0.0   | 0.0    | -34.5  | -0.8   | -3.9  | -16.4 | 0     | -34.5  |        |  |
| UNRES PROD LOSS GALS   | 0      | 0      | 0      | 0.0   | 0.0    | -93.7  | -2.3   | 0.0   | 0.0   | 0     | -93.7  |        |  |
| CDR SLOPPED GALS       | 0      | 0      | 0      | 0.0   | 0.0    | 87.5   | 2.1    | 0.6   | 2.6   | 0     | 87.5   |        |  |
| ALYESKA LOSS GALS      | 0      | 0      | 0      | 0.0   | 0.0    | 13.0   | 0.3    | 0.1   | 0.4   | 0     | 13.0   |        |  |
| TOTAL MISCELLANEOUS    |        | 0      | 0      | 0     | 0.0    | 0.0    | -10.0  | -0.2  | -3.2  | -13.3 | 0      | -10.0  |  |
| TOTAL PRODUCTS         |        | 384216 | 479391 | 95175 | 79.3   | 4066.6 | 4072.5 | 100.0 | 23.9  | 100.0 | 0      | 4151.8 |  |

## \*\*PROCESSING SUPPLIES\*\*

|                                  |      |
|----------------------------------|------|
| VOLUME UNITS OF MEASUREMENT:     |      |
| BARREL FUEL OIL EQUIVALENT(BFOE) | FDE  |
| EQUIVALENT LIQUID BARRELS        | ELB  |
| SHORT TONS                       | TONS |
| TONS 100% SULFURIC ACID          | 100% |
| GALLONS                          | GALS |
| POUNDS                           | LBS  |
| THOUSANDS OF POUNDS              | MLBS |

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## CONOCO INC.-LAKE CHARLES REFINERY

ME03 - CITGO EXCHANGE BALANCE

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|                      | ----- YTD 1990 INVENTORY AND R/S ----- |         |        |          |       | ----- YTD 1990 PRODUCTION ----- |       |        |      |        |       |         |
|----------------------|----------------------------------------|---------|--------|----------|-------|---------------------------------|-------|--------|------|--------|-------|---------|
|                      | OPENING                                | CLOSING | CHANGE | PURCHASE | SALE  | VOLUME                          | VOL % | WEIGHT | WT % | LOADED | NET   | PRODUCT |
|                      | BBLS                                   | BBLS    | BBLS   | MBBLS    | MBBLS | MBBLS                           |       | MMBLS  |      | BBLS   | MBBLS |         |
| **** PRODUCTS ****   |                                        |         |        |          |       |                                 |       |        |      |        |       |         |
| CITGO EXCHANGE       |                                        |         |        |          |       |                                 |       |        |      |        |       |         |
| BENZENE HEARTCUT     | 0.                                     | 0.      | 0.     | 947.0    | 0.0   | -947.0                          | 0.0   | -244.8 | 0.0  | 0.     | 0.0   |         |
| BENZENE              | 0.                                     | 5607.   | 5607.  | 0.0      | 131.5 | 137.1                           | 0.0   | 35.4   | 0.0  | 0.     | 137.1 |         |
| RAFFINATE            | 0.                                     | 20385.  | 20385. | 0.0      | 789.6 | 809.9                           | 0.0   | 209.4  | 0.0  | 0.     | 809.9 |         |
| TOTAL CITGO EXCHANGE | 0.                                     | 25992.  | 25992. | 947.0    | 921.0 | 0.0                             | 0.0   | 0.0    | 0.0  | 0.     | 947.0 |         |
| TOTAL PRODUCTS       | 0.                                     | 25992.  | 25992. | 947.0    | 921.0 | 0.0                             | 0.0   | 0.0    | 0.0  | 0.     | 947.0 |         |

\*\*\*PROCESSING SUPPLIES\*\*\*

VOLUME UNITS OF MEASUREMENT:

|                                  |      |
|----------------------------------|------|
| BARREL FUEL OIL EQUIVALENT(BFOE) | FOE  |
| EQUIVALENT LIQUID BARRELS        | ELB  |
| SHORT TONS                       | TONS |
| TONS 100% SULFURIC ACID          | 100% |
| GALLONS                          | GALS |
| POUNDS                           | LBS  |
| THOUSANDS OF POUNDS              | MLBS |

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## ME14 - TOTAL COKE BALANCE

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|                  | OPENING<br>TONS | DECEMBER<br>CLOSING<br>TONS | INVENTORY AND R/S<br>CHANGE<br>TONS | PURCHASE<br>TONS | SALE<br>TONS | DECEMBER<br>VOLUME<br>TONS | PRODUCTION<br>WEIGHT<br>MLBS | LOADED<br>TONS | NET<br>FACTOR<br>TONS |
|------------------|-----------------|-----------------------------|-------------------------------------|------------------|--------------|----------------------------|------------------------------|----------------|-----------------------|
| GRN NORM PREMIUM | 6357.           | 2917.                       | -3440.                              | 0.               | 0.           | -3440.                     | -6880.                       | 0.             | 2000.00               |
| GRN LS RECARB    | 1.              | 1.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| GRN NORM RECARB  | 1970.           | 3661.                       | 1691.                               | 0.               | 0.           | 1691.                      | 3382.                        | 0.             | 2000.00               |
| GRN INTR PREMIUM | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| GRN LCH ANODE    | 2543.           | 2429.                       | -114.                               | 0.               | 0.           | -114.                      | -228.                        | 0.             | 2000.00               |
| GRN PUR ANODE    | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| GRN X COKE       | 2358.           | 9783.                       | 7425.                               | 0.               | 0.           | 7425.                      | 14850.                       | 0.             | 2000.00               |
| GRN BASE PREMIUM | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| GRN 1% S RECARB  | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| GRN MS RECARB    | 1.              | 1.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| GRN HI S FUEL    | 143025.         | 149492.                     | 6467.                               | 0.               | 82563.       | 89030.                     | 178061.                      | 0.             | 2000.01               |
| GRN PC ANODE     | 725.            | 1556.                       | 831.                                | 1556.            | 656.         | -69.                       | -138.                        | 0.             | 2000.00               |
| BASE PREMIUM     | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| NORM PREMIUM     | 1974.           | 1414.                       | -560.                               | 0.               | 3596.        | 3036.                      | 6072.                        | 0.             | 2000.00               |
| LS RECARB        | 4517.           | 240.                        | -4277.                              | 0.               | 4253.        | -24.                       | -49.                         | 0.             | 2041.67               |
| NORMAL S. RECARB | 4531.           | 4691.                       | 160.                                | 0.               | 282.         | 442.                       | 884.                         | 0.             | 2000.00               |
| INTR PREMIUM     | 1.              | 0.                          | -1.                                 | 0.               | 0.           | -1.                        | -2.                          | 0.             | 2000.00               |
| LCH ANODE        | 4011.           | 2397.                       | -1614.                              | 0.               | 3063.        | 1449.                      | 2899.                        | 0.             | 2000.69               |
| 1% S RECARB      | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| MS RECARB        | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| IS RECARB        | 2937.           | 0.                          | -2937.                              | 0.               | 2912.        | -25.                       | -50.                         | 0.             | 2000.00               |
| BLENDED ANODE    | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| X COKE           | 5425.           | 2869.                       | -2556.                              | 0.               | 5732.        | 3176.                      | 6352.                        | 0.             | 2000.00               |
| HIGH SULEUR      | 1.              | 0.                          | -1.                                 | 0.               | 0.           | -1.                        | -2.                          | 0.             | 2000.00               |
| PC RECARB        | 0.              | 0.                          | 0.                                  | 0.               | 4306.        | 4306.                      | 8612.                        | 0.             | 2000.00               |
| PC ANODE         | 18919.          | 0.                          | -18919.                             | 0.               | 4424.        | -14495.                    | -28991.                      | 0.             | 2000.07               |
| TI COKE          | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| CALC LOW SULEUR  | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 0.                         | 0.                           | 0.             | 0.00                  |
| COKE FINES       | 24.             | 24.                         | 0.                                  | 0.               | 528.         | 528.                       | 1056.                        | 0.             | 2000.00               |
| COKE LOSSES      | 0.              | 0.                          | 0.                                  | 0.               | 0.           | 27797.                     | 55594.                       | 0.             | 2000.00               |
| TOTAL COKE       | 199320.         | 181475.                     | -17845.                             | 1556.            | 112315.      | 120711.                    | 241422.                      | 0.             | 0.00                  |

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## CONOCO INC.-LAKE CHARLES REFINERY

## ME15 - TOTAL COKE BALANCE

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|                  | ----- YTD 1990 INVENTORY AND R/S ----- |         |         |          | ----- YTD 1990 PRODUCTION ----- |          |          |        |         | NET |
|------------------|----------------------------------------|---------|---------|----------|---------------------------------|----------|----------|--------|---------|-----|
|                  | OPENING                                | CLOSING | CHANGE  | PURCHASE | SALE                            | VOLUME   | WEIGHT   | LOADED | FACTOR  |     |
|                  | TONS                                   | TONS    | TONS    | TONS     | TONS                            | TONS     | MLBS     | TONS   | TONS    |     |
| GRN NORM PREMIUM | 1437.                                  | 2917.   | 1480.   | 0.       | 0.                              | 1480.    | 2960.    | 0.     | 2000.00 |     |
| GRN LS RECARB    | 1.                                     | 1.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| GRN NORM RECARB  | 1140.                                  | 3661.   | 2521.   | 0.       | 0.                              | 2521.    | 5042.    | 0.     | 2000.00 |     |
| GRN INTR PREMIUM | 1.                                     | 0.      | -1.     | 0.       | 0.                              | -1.      | -2.      | 0.     | 2000.00 |     |
| GRN LCH ANODE    | 19499.                                 | 2429.   | -17070. | 0.       | 0.                              | -17070.  | -34140.  | 0.     | 2000.00 |     |
| GRN PUR ANODE    | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| GRN X COKE       | 5643.                                  | 9783.   | 4140.   | 0.       | 0.                              | 4140.    | 8280.    | 0.     | 2000.00 |     |
| GRN BASE PREMIUM | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| GRN 1% S RECARB  | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| GRN MS RECARB    | 1.                                     | 1.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| GRN HI S FUEL    | 116036.                                | 149492. | 33456.  | 0.       | 874819.                         | 908275.  | 1816551. | 0.     | 2000.00 |     |
| GRN PC ANODE     | 0.                                     | 1556.   | 1556.   | 34768.   | 656.                            | -32556.  | -65112.  | 0.     | 2000.00 |     |
| BASE PREMIUM     | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| NORM PREMIUM     | 3091.                                  | 1414.   | -1677.  | 0.       | 31563.                          | 29886.   | 59772.   | 0.     | 2000.00 |     |
| LS RECARB        | 4215.                                  | 240.    | -3975.  | 0.       | 19085.                          | 15110.   | 30220.   | 0.     | 2000.00 |     |
| NORMAL S RECARB  | 2934.                                  | 4691.   | 1757.   | 0.       | 11865.                          | 13622.   | 27244.   | 0.     | 2000.00 |     |
| INTR PREMIUM     | 1013.                                  | 0.      | -1013.  | 0.       | 13167.                          | 12154.   | 22460.   | 0.     | 1847.95 |     |
| LCH ANODE        | 1163.                                  | 2397.   | 1234.   | 1550.    | 47597.                          | 47282.   | 94562.   | 0.     | 1999.96 |     |
| 1% S RECARB      | 429.                                   | 0.      | -429.   | 0.       | 2021.                           | 1592.    | 3184.    | 0.     | 2000.00 |     |
| MS RECARB        | 2881.                                  | 0.      | -2881.  | 0.       | 4266.                           | 1385.    | 2770.    | 0.     | 2000.00 |     |
| IS RECARB        | 0.                                     | 0.      | 0.      | 0.       | 2912.                           | 2912.    | 5824.    | 0.     | 2000.00 |     |
| BLENDED ANODE    | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| X COKE           | 1549.                                  | 2869.   | 1320.   | 0.       | 55270.                          | 56590.   | 113180.  | 0.     | 2000.00 |     |
| HIGH SULEUR      | 95.                                    | 0.      | -95.    | 0.       | 274.                            | 179.     | 358.     | 0.     | 2000.00 |     |
| PC RECARB        | 0.                                     | 0.      | 0.      | 0.       | 7152.                           | 7152.    | 14304.   | 0.     | 2000.00 |     |
| PC ANODE         | 0.                                     | 0.      | 0.      | 0.       | 6326.                           | 6326.    | 12652.   | 0.     | 2000.00 |     |
| TI COKE          | 10343.                                 | 0.      | -10343. | 0.       | 34324.                          | 23980.   | 47960.   | 0.     | 2000.00 |     |
| CALC LOW SULEUR  | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 0.       | 0.       | 0.     | 0.00    |     |
| COKE FINES       | 150.                                   | 24.     | -126.   | 0.       | 8940.                           | 8814.    | 17628.   | 0.     | 2000.00 |     |
| COKE LOSSES      | 0.                                     | 0.      | 0.      | 0.       | 0.                              | 41483.   | 82966.   | 0.     | 2000.00 |     |
| TOTAL COKE       | 171621.                                | 181475. | 9854.   | 36318.   | 1120237.                        | 1135256. | 2268663. | 0.     | 0.00    |     |

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## ME16 - TOTAL COKE BALANCE

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|            | DECEMBER<br>OPENING<br>TONS | DECEMBER<br>CLOSING<br>TONS | INVENTORY AND R/S<br>CHANGE<br>TONS | PURCHASE<br>TONS | SALE<br>TONS | VOLUME<br>TONS | DECEMBER<br>PRODUCTION<br>MLBS | LOADED<br>TONS | NET<br>FACTOR<br>TONS |
|------------|-----------------------------|-----------------------------|-------------------------------------|------------------|--------------|----------------|--------------------------------|----------------|-----------------------|
| POOL 1     | 12879.                      | 3109.                       | -9770.                              | 0.               | 12897.       | 3127.          | 6253.                          | 0.             | 1999.68               |
| POOL 2     | 1975.                       | 1414.                       | -561.                               | 0.               | 3596.        | 3035.          | 6070.                          | 0.             | 2000.00               |
| POOL 3     | 27462.                      | 7088.                       | -20374.                             | 0.               | 12075.       | -8290.         | -16598.                        | 0.             | 2000.00               |
| POOL 4     | 13955.                      | 20348.                      | 6393.                               | 1556.            | 656.         | 5493.          | 10986.                         | 0.             | 2000.00               |
| POOL 5     | 143049.                     | 149516.                     | 6467.                               | 0.               | 83091.       | 117355.        | 234711.                        | 0.             | 2000.01               |
| TOTAL COKE | 199320.                     | 181475.                     | -17845.                             | 1556.            | 112315.      | 120711.        | 241422.                        | 0.             | 0.00                  |

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CONOCO INC.-LAKE CHARLES REFINERY

ME17 - TOTAL COKE BALANCE

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|            | ----- YTD 1990 INVENTORY AND R/S ----- | ----- YTD 1990 PRODUCTION ----- |        |          |         |         |          |        |         |
|------------|----------------------------------------|---------------------------------|--------|----------|---------|---------|----------|--------|---------|
|            | OPENING                                | CLOSING                         | CHANGE | PURCHASE | SALE    | VOLUME  | WEIGHT   | LOADED | NET     |
|            | TONS                                   | TONS                            | TONS   | TONS     | TONS    | TONS    | MLBS     | TONS   | FACTOR  |
| POOL 1     | 8645.                                  | 3109.                           | -5536. | 0.       | 81533.  | 75997.  | 151994.  | 0.     | 2000.00 |
| POOL 2     | 4104.                                  | 1414.                           | -2690. | 0.       | 44730.  | 42040.  | 82232.   | 0.     | 1956.04 |
| POOL 3     | 14964.                                 | 7088.                           | -7876. | 1550.    | 109559. | 100133. | 200264.  | 0.     | 1999.98 |
| POOL 4     | 27722.                                 | 20348.                          | -7374. | 34768.   | 656.    | -41486. | -82972.  | 0.     | 2000.00 |
| POOL 5     | 116186.                                | 149516.                         | 33330. | 0.       | 883759. | 958572. | 1917145. | 0.     | 2000.00 |
| TOTAL COKE | 171621                                 | 181475                          | 9854   | 36318    | 1120237 | 1135256 | 2268663  | 0.     | 0.00    |

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CONOCO INC.-LAKE CHARLES REFINER  
ME12 - DECEMBER COKE BALANCE REPORT

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|                     | DECEMBER INVENTORY AND R/S |         |        |          | DECEMBER PRODUCTION |            |             |               |        |
|---------------------|----------------------------|---------|--------|----------|---------------------|------------|-------------|---------------|--------|
|                     | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE                | PRODUCTION | TO PRODUCTS | FROM PRODUCTS | LOADED |
| LCCHT               |                            |         |        |          |                     |            |             |               |        |
| DL 3                |                            |         |        |          |                     |            |             |               |        |
| HIGH SULFUR         | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| TI COKE             | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| BTOTAL POOL 3       | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| DL 4                |                            |         |        |          |                     |            |             |               |        |
| GRN LCH ANODE       | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 491.        | 491.          | 0.     |
| BTOTAL POOL 4       | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 491.        | 491.          | 0.     |
| DL 5                |                            |         |        |          |                     |            |             |               |        |
| GRN HI S FUEL       | 133344.                    | 137675. | 4331.  | 0.       | 81743.              | 0.         | 15064.      | 101138.       | 0.     |
| 201 COKE LOSS       | 0.                         | 0.      | 0.     | 0.       | 0.                  | -15064.    | 0.          | 15064.        | 0.     |
| BTOTAL POOL 5       | 133344.                    | 137675. | 4331.  | 0.       | 81743.              | -15064.    | 15064.      | 116202.       | 0.     |
| L 201 LCCHT         | 133344.                    | 137675. | 4331.  | 0.       | 81743.              | -15064.    | 15555.      | 116693.       | 0.     |
| BT - 1 SILOS        |                            |         |        |          |                     |            |             |               |        |
| DL 1                |                            |         |        |          |                     |            |             |               |        |
| X COKE              | 1968.                      | 293.    | -1675. | 0.       | 3499.               | 0.         | 66.         | 1890.         | 0.     |
| LS RECARB           | 277.                       | 240.    | -37.   | 0.       | 0.                  | 0.         | 37.         | 0.            | 0.     |
| MS RECARB           | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| IS RECARB           | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| BTOTAL POOL 1       | 2245.                      | 533.    | -1712. | 0.       | 3499.               | 0.         | 103.        | 1890.         | 0.     |
| DL 2                |                            |         |        |          |                     |            |             |               |        |
| NORMAL PREMIUM      | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| BASE PREMIUM        | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| INTR PREMIUM        | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| BTOTAL POOL 2       | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| DL 3                |                            |         |        |          |                     |            |             |               |        |
| NORMAL S RECARB     | 4162.                      | 4513.   | 351.   | 0.       | 97.                 | 0.         | 23.         | 471.          | 0.     |
| 1% S RECARB         | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| LCH ANODE           | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| BLENDED ANODE       | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| HIGH SULFUR         | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| TI COKE             | 0.                         | 0.      | 0.     | 0.       | 0.                  | 0.         | 0.          | 0.            | 0.     |
| PC RECARB           | -1.                        | 0.      | 1.     | 0.       | 0.                  | 0.         | -1.         | 0.            | 0.     |
| PC ANODE            | 2429.                      | 0.      | -2429. | 0.       | 0.                  | 0.         | 2429.       | 0.            | 0.     |
| UBTOTAL POOL 3      | 6590.                      | 4513.   | -2077. | 0.       | 97.                 | 0.         | 2451.       | 471.          | 0.     |
| DL 5                |                            |         |        |          |                     |            |             |               |        |
| 202 COKE LOSS       | 0.                         | 0.      | 0.     | 0.       | 0.                  | -78.       | 0.          | 78.           | 0.     |
| GRN HI S FUEL       | 0.                         | 2429.   | 2429.  | 0.       | 0.                  | 0.         | 0.          | 2429.         | 0.     |
| UBTOTAL POOL 5      | 0.                         | 2429.   | 2429.  | 0.       | 0.                  | -78.       | 0.          | 2507.         | 0.     |
| AL 202 BT - 1 SILOS | 8835.                      | 7475.   | -1360. | 0.       | 3596.               | -78.       | 2554.       | 4868.         | 0.     |

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|                      | DECEMBER INVENTORY AND R/S |         |        |          |      | DECEMBER PRODUCTION |             |               |        |
|----------------------|----------------------------|---------|--------|----------|------|---------------------|-------------|---------------|--------|
|                      | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE | PRODUCTION          | TO PRODUCTS | FROM PRODUCTS | LOADED |
| 203 PORT OF LC       |                            |         |        |          |      |                     |             |               |        |
| POOL 1               |                            |         |        |          |      |                     |             |               |        |
| LS RECARB            | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| MS RECARB            | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| X COKE               | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 1      | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| POOL 2               |                            |         |        |          |      |                     |             |               |        |
| BASE PREMIUM         | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| INTR PREMIUM         | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| NORMAL PREMIUM       | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 2      | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| POOL 3               |                            |         |        |          |      |                     |             |               |        |
| NORMAL S. RECARB     | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| 1/2 S RECARB         | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| LCH ANODE            | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| TI COKE              | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| PC ANODE             | 3489.                      | 0.      | -3489. | 0.       | 0.   | 0.                  | 3489.       | 0.            | 0.     |
| SUBTOTAL POOL 3      | 3489.                      | 0.      | -3489. | 0.       | 0.   | 0.                  | 3489.       | 0.            | 0.     |
| POOL 4               |                            |         |        |          |      |                     |             |               |        |
| GRN NORM PREMIUM     | 4568.                      | 2916.   | -1652. | 0.       | 0.   | 0.                  | -2463.      | -811.         | 0.     |
| GRN PUR ANODE        | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| GRN LS RECARB        | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| GRN INT PREMIUM      | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| GRN MS RECARB        | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| GRN NORM RECARB      | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| GRN LCH ANODE        | 2542.                      | 1565.   | -977.  | 0.       | 0.   | 0.                  | 977.        | 0.            | 0.     |
| GRN X COKE           | 0.                         | 3772.   | 3772.  | 0.       | 0.   | 0.                  | 0.          | 3772.         | 0.     |
| GRN 1/2 S RECARB     | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4      | 7110.                      | 8253.   | 1143.  | 0.       | 0.   | 0.                  | 3440.       | 4583.         | 0.     |
| POOL 5               |                            |         |        |          |      |                     |             |               |        |
| COKE FINES           | 24.                        | 24.     | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| 203 COKE LOSS        | 0.                         | 0.      | 0.     | 0.       | 0.   | -670.               | 0.          | 670.          | 0.     |
| GRN HI S FUEL        | 0.                         | 3624.   | 3624.  | 0.       | 0.   | 0.                  | 111.        | 3735.         | 0.     |
| SUBTOTAL POOL 5      | 24.                        | 3648.   | 3624.  | 0.       | 0.   | -670.               | 111.        | 4405.         | 0.     |
| TOTAL 203 PORT OF LC | 10623.                     | 11901.  | 1278.  | 0.       | 0.   | -670.               | 7040.       | 8988.         | 0.     |
| 204 REFINERY         |                            |         |        |          |      |                     |             |               |        |
| POOL 1               |                            |         |        |          |      |                     |             |               |        |
| LS RECARB            | 1732.                      | 0.      | -1732. | 0.       | 0.   | 0.                  | 1732.       | 0.            | 0.     |
| MS RECARB            | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| IS RECARB            | 0.                         | 0.      | 0.     | 0.       | 0.   | 0.                  | 0.          | 0.            | 0.     |
| X COKE               | 0.                         | 0.      | 0.     | 0.       | 0.   | 3369.               | 3369.       | 0.            | 0.     |
| SUBTOTAL POOL 1      | 1732.                      | 0.      | -1732. | 0.       | 0.   | 3369.               | 5101.       | 0.            | 0.     |

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|                         | DECEMBER INVENTORY AND R/S |         |        |          |       | DECEMBER PRODUCTION |             |               |        |
|-------------------------|----------------------------|---------|--------|----------|-------|---------------------|-------------|---------------|--------|
|                         | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE  | PRODUCTION          | TO PRODUCTS | FROM PRODUCTS | LOADED |
| <b>POOL 2</b>           |                            |         |        |          |       |                     |             |               |        |
| NORMAL PREMIUM          | 1.                         | 0.      | -1.    | 0.       | 0.    | 2949.               | 2950.       | 0.            | 0.     |
| INTR. PREMIUM           | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| BASE PREMIUM            | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 2         | 1.                         | 0.      | -1.    | 0.       | 0.    | 2949.               | 2950.       | 0.            | 0.     |
| <b>POOL 3</b>           |                            |         |        |          |       |                     |             |               |        |
| NORMAL S RECARB         | 0.                         | 0.      | 0.     | 0.       | 0.    | 605.                | 605.        | 0.            | 0.     |
| LCH ANODE               | 526.                       | 826.    | 300.   | 0.       | 0.    | 1771.               | 1471.       | 0.            | 0.     |
| 1% S RECARB             | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| BLENDED ANODE           | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| HIGH SULFUR             | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| PC RECARB               | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| PC ANODE                | 626.                       | 0.      | -626.  | 0.       | 0.    | 0.                  | 626.        | 0.            | 0.     |
| TI COKE                 | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 3         | 1152.                      | 826.    | -326.  | 0.       | 0.    | 2376.               | 2702.       | 0.            | 0.     |
| <b>POOL 4</b>           |                            |         |        |          |       |                     |             |               |        |
| GRN. NORM. PREMIUM      | 1789.                      | 1.      | -1788. | 0.       | 0.    | -3782.              | -78.        | -1916.        | 0.     |
| GRN LS RECARB           | 1.                         | 1.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN NORM RECARB         | 1970.                      | 3661.   | 1691.  | 0.       | 0.    | -11.                | -1474.      | 228.          | 0.     |
| GRN MS RECARB           | 1.                         | 1.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN INTR. PREMIUM       | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN LCH ANODE           | 1.                         | 864.    | 863.   | 0.       | 0.    | 863.                | 228.        | 228.          | 0.     |
| GRN PUR ANODE           | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN X COKE              | 2358.                      | 6011.   | 3653.  | 0.       | 0.    | 7425.               | 3772.       | 0.            | 0.     |
| GRN BASE PREMIUM        | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN 1% S RECARB         | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN PC ANODE            | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4         | 6120.                      | 10539.  | 4419.  | 0.       | 0.    | 4495.               | 2448.       | 2372.         | 0.     |
| <b>POOL 5</b>           |                            |         |        |          |       |                     |             |               |        |
| GRN HI S FUEL           | 9681.                      | 2126.   | -7555. | 0.       | 820.  | 99564.              | 114883.     | 8584.         | 0.     |
| COKE FINES              | 0.                         | 0.      | 0.     | 0.       | 528.  | 0.                  | -528.       | 0.            | 0.     |
| 204 COKE LOSS           | 0.                         | 0.      | 0.     | 0.       | 0.    | -11154.             | 0.          | -11154.       | 0.     |
| SUBTOTAL POOL 5         | 9681.                      | 2126.   | -7555. | 0.       | 1348. | 88410.              | 114355.     | 19738.        | 0.     |
| TOTAL 204 REFINERY      | 18686.                     | 13491.  | -5195. | 0.       | 1348. | 101599.             | 127556.     | 22110.        | 0.     |
| <b>205 WOODCHIP PAD</b> |                            |         |        |          |       |                     |             |               |        |
| <b>POOL 3</b>           |                            |         |        |          |       |                     |             |               |        |
| 1% S RECARB             | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 3         | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| <b>POOL 4</b>           |                            |         |        |          |       |                     |             |               |        |
| GRN LCH ANODE           | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN PUR ANODE           | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN 1% S RECARB         | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4         | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |

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|                        | DECEMBER INVENTORY AND R/S |         |         | DECEMBER PRODUCTION |        |            |             |               |        |
|------------------------|----------------------------|---------|---------|---------------------|--------|------------|-------------|---------------|--------|
|                        | OPENING                    | CLOSING | CHANGE  | PURCHASE            | SALE   | PRODUCTION | TO PRODUCTS | FROM PRODUCTS | LOADED |
| POOL 5                 |                            |         |         |                     |        |            |             |               |        |
| GRN HI S FUEL          | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| 205 COKE LOSS          | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 5        | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| TOTAL 205 WOODCHIP PAD | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| POOL 1                 |                            |         |         |                     |        |            |             |               |        |
| X COKE                 | 3457.                      | 2577.   | -881.   | 0.                  | 2233.  | 0.         | 1890.       | 3242.         | 0.     |
| LS RECARB              | 2508.                      | 0.      | -2508.  | 0.                  | 4253.  | 0.         | 65.         | 1810.         | 0.     |
| MS RECARB              | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| IS RECARB              | 2937.                      | 0.      | -2937.  | 0.                  | 2912.  | 0.         | 38.         | 13.           | 0.     |
| SUBTOTAL POOL 1        | 8902.                      | 2576.   | -6326.  | 0.                  | 9398.  | 0.         | 1993.       | 5065.         | 0.     |
| POOL 2                 |                            |         |         |                     |        |            |             |               |        |
| NORMAL PREMIUM         | 1973.                      | 1414.   | -559.   | 0.                  | 3596.  | 0.         | 0.          | 3037.         | 0.     |
| INTR PREMIUM           | 1.                         | 0.      | -1.     | 0.                  | 0.     | 0.         | 1.          | 0.            | 0.     |
| BASE PREMIUM           | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 2        | 1974.                      | 1414.   | -560.   | 0.                  | 3596.  | 0.         | 1.          | 3037.         | 0.     |
| POOL 3                 |                            |         |         |                     |        |            |             |               |        |
| NORMAL S RECARB        | 369.                       | 178.    | -191.   | 0.                  | 185.   | 0.         | 0.          | -6.           | 0.     |
| LS S RECARB            | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| LCH ANODE              | 374.                       | 1405.   | 1031.   | 0.                  | 362.   | 0.         | 405.        | 1798.         | 0.     |
| BLENDED ANODE          | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| HIGH SULFUR            | 1.                         | 0.      | -1.     | 0.                  | 0.     | 0.         | 1.          | 0.            | 0.     |
| TE COKE                | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| PC RECARB              | 1.                         | 0.      | -1.     | 0.                  | 0.     | 0.         | 1.          | 0.            | 0.     |
| PC ANODE               | 8069.                      | 0.      | -8069.  | 0.                  | 4424.  | 0.         | 3645.       | 0.            | 0.     |
| SUBTOTAL POOL 3        | 8814.                      | 1583.   | -7231.  | 0.                  | 4971.  | 0.         | 4052.       | 1792.         | 0.     |
| POOL 4                 |                            |         |         |                     |        |            |             |               |        |
| GRN LCH ANODE          | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| GRN PUR ANODE          | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4        | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| POOL 5                 |                            |         |         |                     |        |            |             |               |        |
| 206 COKE LOSS          | 0.                         | 0.      | 0.      | 0.                  | 0.     | -113.      | 0.          | 113.          | 0.     |
| GRN HI S FUEL          | 0.                         | 3638.   | 3638.   | 0.                  | 0.     | 0.         | 0.          | 3638.         | 0.     |
| SUBTOTAL POOL 5        | 0.                         | 3638.   | 3638.   | 0.                  | 0.     | -113.      | 0.          | 3751.         | 0.     |
| TOTAL 206 TRANSPORT    | 19690.                     | 9211.   | -10479. | 0.                  | 17965. | -113.      | 6046.       | 13645.        | 0.     |
| POOL 1                 |                            |         |         |                     |        |            |             |               |        |
| X COKE                 | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 1        | 0.                         | 0.      | 0.      | 0.                  | 0.     | 0.         | 0.          | 0.            | 0.     |

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|                        | DECEMBER INVENTORY AND R/S |         |        |          |       | DECEMBER PRODUCTION |             |               |        |
|------------------------|----------------------------|---------|--------|----------|-------|---------------------|-------------|---------------|--------|
|                        | OPENING                    | CLOSING | CHANGE | PURCHASE | SALE  | PRODUCTION          | TO PRODUCTS | FROM PRODUCTS | LOADED |
| POOL 3                 |                            |         |        |          |       |                     |             |               |        |
| NORMAL S RECARB        | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| PC RECARB              | 0.                         | 0.      | 0.     | 0.       | 4306. | 0.                  | 0.          | 4306.         | 0.     |
| HIGH SULFUR            | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| TI COKE                | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| LCH ANODE              | -1.                        | 0.      | 1.     | 0.       | 0.    | 0.                  | -1.         | 0.            | 0.     |
| PC ANODE               | 4306.                      | 0.      | -4306. | 0.       | 0.    | 0.                  | 4306.       | 0.            | 0.     |
| SUBTOTAL POOL 3        | 4305.                      | 0.      | -4305. | 0.       | 4306. | 0.                  | 4305.       | 4306.         | 0.     |
| POOL 4                 |                            |         |        |          |       |                     |             |               |        |
| GRN X COKE             | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN NORM RECARB        | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| GRN PC ANODE           | 725.                       | 0.      | -725.  | 0.       | 656.  | 0.                  | 69.         | 0.            | 0.     |
| GRN LCH ANODE          | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4        | 725.                       | 0.      | -725.  | 0.       | 656.  | 0.                  | 69.         | 0.            | 0.     |
| POOL 5                 |                            |         |        |          |       |                     |             |               |        |
| GRN HI S FUEL          | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| 207 COKE LOSS          | 0.                         | 0.      | 0.     | 0.       | 0.    | -68.                | 0.          | 68.           | 0.     |
| SUBTOTAL POOL 5        | 0.                         | 0.      | 0.     | 0.       | 0.    | -68.                | 0.          | 68.           | 0.     |
| TOTAL 207 PORT ART TML | 5030.                      | 0.      | -5030. | 0.       | 4962. | -68.                | 4374.       | 4374.         | 0.     |
| 208 SOHIO TML          |                            |         |        |          |       |                     |             |               |        |
| POOL 3                 |                            |         |        |          |       |                     |             |               |        |
| PC RECARB              | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| PC ANODE               | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| LCH ANODE              | 3112.                      | 166.    | -2946. | 0.       | 2701. | 0.                  | 650.        | 405.          | 0.     |
| 1% S RECARB            | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 3        | 3112.                      | 166.    | -2946. | 0.       | 2701. | 0.                  | 650.        | 405.          | 0.     |
| POOL 4                 |                            |         |        |          |       |                     |             |               |        |
| GRN PC ANODE           | 0.                         | 1556.   | 1556.  | 1556.    | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4        | 0.                         | 1556.   | 1556.  | 1556.    | 0.    | 0.                  | 0.          | 0.            | 0.     |
| POOL 5                 |                            |         |        |          |       |                     |             |               |        |
| 208 COKE LOSS          | 0.                         | 0.      | 0.     | 0.       | 0.    | -650.               | 0.          | 650.          | 0.     |
| SUBTOTAL POOL 5        | 0.                         | 0.      | 0.     | 0.       | 0.    | -650.               | 0.          | 650.          | 0.     |
| TOTAL 208 SOHIO TML    | 3112.                      | 1722.   | -1390. | 1556.    | 2701. | -650.               | 650.        | 1055.         | 0.     |
| 209 REYNOLDS PAD       |                            |         |        |          |       |                     |             |               |        |
| POOL 4                 |                            |         |        |          |       |                     |             |               |        |
| GRN LCH ANODE          | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 4        | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| POOL 5                 |                            |         |        |          |       |                     |             |               |        |
| 209 COKE LOSS          | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| SUBTOTAL POOL 5        | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |
| TOTAL 209 REYNOLDS PAD | 0.                         | 0.      | 0.     | 0.       | 0.    | 0.                  | 0.          | 0.            | 0.     |

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|                        | DECEMBER INVENTORY AND R/S |         |         |          |         | DECEMBER PRODUCTION    |               |         |  |
|------------------------|----------------------------|---------|---------|----------|---------|------------------------|---------------|---------|--|
|                        | OPENING                    | CLOSING | CHANGE  | PURCHASE | SALE    | PRODUCTION TO PRODUCTS | FROM PRODUCTS | LOADED  |  |
| 210 PURCH/RESALE       |                            |         |         |          |         |                        |               |         |  |
| POOL 3                 |                            |         |         |          |         |                        |               |         |  |
| CALC LOW SULFUR        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 3        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TOTAL 210 PURCH/RESALE | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| 211 BP TERMINAL        |                            |         |         |          |         |                        |               |         |  |
| POOL 5                 |                            |         |         |          |         |                        |               |         |  |
| GRN HI S FUEL          | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 5        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| POOL 3                 |                            |         |         |          |         |                        |               |         |  |
| HIGH SULFUR            | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TI COKE                | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 3        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TOTAL 211 BP TERMINAL  | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| 212 VENCO TML          |                            |         |         |          |         |                        |               |         |  |
| POOL 5                 |                            |         |         |          |         |                        |               |         |  |
| GRN HI S FUEL          | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| 212 COKE LOSS          | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 5        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| POOL 3                 |                            |         |         |          |         |                        |               |         |  |
| HIGH SULFUR            | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TI COKE                | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 3        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TOTAL 212 VENCO TML    | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| 213 TURNER TML         |                            |         |         |          |         |                        |               |         |  |
| POOL 1                 |                            |         |         |          |         |                        |               |         |  |
| LS RECARB              | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| MS RECARB              | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| IS RECARB              | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 1        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| POOL 2                 |                            |         |         |          |         |                        |               |         |  |
| NORMAL PREMIUM         | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| SUBTOTAL POOL 2        | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TOTAL 213 TURNER TML   | 0.                         | 0.      | 0.      | 0.       | 0.      | 0.                     | 0.            | 0.      |  |
| TOTAL COKE TRANSFERS   | 199320.                    | 181475. | -17845. | 1556.    | 112315. | 84956.                 | 163775.       | 171733. |  |

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|                        | 1990 YTD INVENTORY AND R/S |                 |                |                   |               | 1990 YTD PRODUCTION |                      |                        |                |
|------------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|----------------------|------------------------|----------------|
|                        | OPENING<br>TONS            | CLOSING<br>TONS | CHANGE<br>TONS | PURCHASE<br>MTONS | SALE<br>MTONS | PRODUCTION<br>MTONS | TO PRODUCTS<br>MTONS | FROM PRODUCTS<br>MTONS | LOADED<br>TONS |
| 201 LCCHT              |                            |                 |                |                   |               |                     |                      |                        |                |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |
| HIGH SULFUR            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| TI COKE                | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| SUBTOTAL POOL 3        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| POOL 4                 |                            |                 |                |                   |               |                     |                      |                        |                |
| GRN LCH ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| SUBTOTAL POOL 4        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |
| GRN HI S FUEL          | 113551.                    | 137675.         | 24124.         | 0.                | 670.          | 0.                  | 23.                  | 717.                   | 0.             |
| 201 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | -23.                | 0.                   | 23.                    | 0.             |
| SUBTOTAL POOL 5        | 113551.                    | 137675.         | 24124.         | 0.                | 670.          | -23.                | 23.                  | 740.                   | 0.             |
| TOTAL 201 LCCHT        | 113551.                    | 137675.         | 24124.         | 0.                | 670.          | -23.                | 24.                  | 740.                   | 0.             |
| 202 BT - 1 SILOS       |                            |                 |                |                   |               |                     |                      |                        |                |
| POOL 1                 |                            |                 |                |                   |               |                     |                      |                        |                |
| X COKE                 | 0.                         | 293.            | 293.           | 0.                | 15.           | 0.                  | 1.                   | 17.                    | 0.             |
| LS RECARB              | 3410.                      | 240.            | -3170.         | 0.                | 15.           | 0.                  | 0.                   | 12.                    | 0.             |
| MS RECARB              | 0.                         | 0.              | 0.             | 0.                | 3.            | 0.                  | 0.                   | 3.                     | 0.             |
| IS RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| SUBTOTAL POOL 1        | 3410.                      | 533.            | -2877.         | 0.                | 33.           | 0.                  | 2.                   | 32.                    | 0.             |
| POOL 2                 |                            |                 |                |                   |               |                     |                      |                        |                |
| NORMAL PREMIUM         | 215.                       | 0.              | -215.          | 0.                | 2.            | 0.                  | 3.                   | 5.                     | 0.             |
| BASE PREMIUM           | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| INTR PREMIUM           | 0.                         | 0.              | 0.             | 0.                | 13.           | 0.                  | 5.                   | 18.                    | 0.             |
| SUBTOTAL POOL 2        | 215.                       | 0.              | -215.          | 0.                | 15.           | 0.                  | 8.                   | 23.                    | 0.             |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |
| NORMAL S RECARB        | 2291.                      | 4513.           | 2222.          | 0.                | 11.           | 0.                  | 1.                   | 14.                    | 0.             |
| 1% S RECARB            | 0.                         | 0.              | 0.             | 0.                | 1.            | 0.                  | 0.                   | 1.                     | 0.             |
| LCH ANODE              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| BLENDED ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| HIGH SULFUR            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| TI COKE                | 2782.                      | 0.              | -2782.         | 0.                | 6.            | 0.                  | 2.                   | 5.                     | 0.             |
| PC RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 2.                   | 2.                     | 0.             |
| PC ANODE               | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 9.                   | 9.                     | 0.             |
| SUBTOTAL POOL 3        | 5073.                      | 4513.           | -560.          | 0.                | 18.           | 0.                  | 15.                  | 32.                    | 0.             |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |
| 202 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | -1.                 | 0.                   | 1.                     | 0.             |
| GRN HI S FUEL          | 0.                         | 2429.           | 2429.          | 0.                | 0.            | 0.                  | 0.                   | 2.                     | 0.             |
| SUBTOTAL POOL 5        | 0.                         | 2429.           | 2429.          | 0.                | 0.            | -1.                 | 0.                   | 3.                     | 0.             |
| TOTAL 202 BT - 1 SILOS | 8698.                      | 7475.           | -1223.         | 0.                | 66.           | -1.                 | 24.                  | 90.                    | 0.             |

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|                      | 1990 YTD INVENTORY AND R/S |                 |                |                   |               | 1990 YTD PRODUCTION |                      |                        |                |  |
|----------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|----------------------|------------------------|----------------|--|
|                      | OPENING<br>TONS            | CLOSING<br>TONS | CHANGE<br>TONS | PURCHASE<br>MTONS | SALE<br>MTONS | PRODUCTION<br>MTONS | TO PRODUCTS<br>MTONS | FROM PRODUCTS<br>MTONS | LOADED<br>TONS |  |
| 203 PORT OF LC       |                            |                 |                |                   |               |                     |                      |                        |                |  |
| POOL 1               |                            |                 |                |                   |               |                     |                      |                        |                |  |
| LS RECARB            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| MS RECARB            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| X COKE               | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 1      | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| POOL 2               |                            |                 |                |                   |               |                     |                      |                        |                |  |
| BASE PREMIUM         | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| INIT. PREMIUM        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| NORMAL PREMIUM       | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 2      | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| POOL 3               |                            |                 |                |                   |               |                     |                      |                        |                |  |
| NORMAL S RECARB      | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| 1% S RECARB          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| LCH ANODE            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| LI COKE              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| PC ANODE             | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 3.                   | 3.                     | 0.             |  |
| SUBTOTAL POOL 3      | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 4.                   | 4.                     | 0.             |  |
| POOL 4               |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN NORM PREMIUM     | 1436.                      | 2916.           | 1480.          | 0.                | 0.            | 0.                  | 17.                  | 18.                    | 0.             |  |
| GRN PUR ANODE        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| GRN LS RECARB        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 4.                   | 4.                     | 0.             |  |
| GRN INT. PREMIUM     | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 7.                   | 7.                     | 0.             |  |
| GRN MS RECARB        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| GRN NORM RECARB      | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 4.                   | 4.                     | 0.             |  |
| GRN LCH ANODE        | 17225.                     | 1565.           | -15660.        | 0.                | 0.            | 0.                  | 38.                  | 22.                    | 0.             |  |
| GRN X COKE           | 502.                       | 3772.           | 3270.          | 0.                | 0.            | 0.                  | 8.                   | 11.                    | 0.             |  |
| GRN 1% S RECARB      | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 4      | 19163.                     | 8253.           | -10910.        | 0.                | 0.            | 0.                  | 78.                  | 67.                    | 0.             |  |
| POOL 5               |                            |                 |                |                   |               |                     |                      |                        |                |  |
| COKE FINES           | 0.                         | 24.             | 24.            | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| 203 COKE LOSS        | 0.                         | 0.              | 0.             | 0.                | 0.            | -5.                 | 0.                   | 5.                     | 0.             |  |
| GRN HI S FUEL        | 0.                         | 3624.           | 3624.          | 0.                | 0.            | 0.                  | 0.                   | 4.                     | 0.             |  |
| SUBTOTAL POOL 5      | 0.                         | 3648.           | 3648.          | 0.                | 0.            | -5.                 | 0.                   | 9.                     | 0.             |  |
| TOTAL 203 PORT OF LC | 19163.                     | 11901.          | -7262.         | 0.                | 0.            | -5.                 | 81.                  | 79.                    | 0.             |  |
| 204 REFINERY         |                            |                 |                |                   |               |                     |                      |                        |                |  |
| POOL 1               |                            |                 |                |                   |               |                     |                      |                        |                |  |
| LS RECARB            | 0.                         | 0.              | 0.             | 0.                | 0.            | 21.                 | 21.                  | 0.                     | 0.             |  |
| MS RECARB            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| LS RECARB            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| X COKE               | 0.                         | 0.              | 0.             | 0.                | 0.            | 61.                 | 61.                  | 0.                     | 0.             |  |
| SUBTOTAL POOL 1      | 0.                         | 0.              | 0.             | 0.                | 0.            | 82.                 | 82.                  | 0.                     | 0.             |  |

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|                    | 1990 YTD INVENTORY AND R/S |                 | 1990 YTD PRODUCTION |                   | 1990 YTD PRODUCTION |                     | 1990 YTD PRODUCTION  |                        | 1990 YTD PRODUCTION |  |
|--------------------|----------------------------|-----------------|---------------------|-------------------|---------------------|---------------------|----------------------|------------------------|---------------------|--|
|                    | OPENING<br>TONS            | CLOSING<br>TONS | CHANGE<br>TONS      | PURCHASE<br>MTONS | SALE<br>MTONS       | PRODUCTION<br>MTONS | TO PRODUCTS<br>MTONS | FROM PRODUCTS<br>MTONS | LOADED<br>TONS      |  |
| POOL 2             |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| NORMAL PREMIUM     | 1451.                      | 0.              | -1451.              | 0.                | 0.                  | 31.                 | 33.                  | 1.                     | 0.                  |  |
| INTR PREMIUM       | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 15.                 | 15.                  | 0.                     | 0.                  |  |
| BASE PREMIUM       | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| SUBTOTAL POOL 2    | 1451.                      | 0.              | -1451.              | 0.                | 0.                  | 46.                 | 48.                  | 1.                     | 0.                  |  |
| POOL 3             |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| NORMAL S RECARB    | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 12.                 | 12.                  | 0.                     | 0.                  |  |
| LCH ANODE          | 1.                         | 826.            | 825.                | 2.                | 2.                  | 52.                 | 51.                  | 0.                     | 0.                  |  |
| 1% S RECARB        | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| BLENDED ANODE      | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| HIGH SULFUR        | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| PC RECARB          | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 7.                  | 7.                   | 0.                     | 0.                  |  |
| PC ANODE           | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 20.                 | 22.                  | 2.                     | 0.                  |  |
| TI COKE            | 2360.                      | 0.              | -2360.              | 0.                | -5.                 | 27.                 | 33.                  | -1.                    | 0.                  |  |
| SUBTOTAL POOL 3    | 2361.                      | 826.            | -1535.              | 2.                | -3.                 | 118.                | 125.                 | 1.                     | 0.                  |  |
| POOL 4             |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| GRN NORM PREMIUM   | 1.                         | 1.              | 0.                  | 0.                | 0.                  | -1.                 | 14.                  | 14.                    | 0.                  |  |
| GRN LS RECARB      | 1.                         | 1.              | 0.                  | 0.                | 0.                  | -2.                 | 2.                   | 3.                     | 0.                  |  |
| GRN NORM RECARB    | 1140.                      | 3661.           | 2521.               | 0.                | 0.                  | -1.                 | 1.                   | 5.                     | 0.                  |  |
| GRN MS RECARB      | 1.                         | 1.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| GRN INTR PREMIUM   | 1.                         | 0.              | -1.                 | 0.                | 0.                  | -3.                 | 4.                   | 7.                     | 0.                  |  |
| GRN LCH ANODE      | 2274.                      | 864.            | -1410.              | 0.                | 0.                  | -16.                | 34.                  | 48.                    | 0.                  |  |
| GRN PUR ANODE      | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| GRN X COKE         | 5141.                      | 6011.           | 870.                | 0.                | 0.                  | -2.                 | 4.                   | 7.                     | 0.                  |  |
| GRN BASE PREMIUM   | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| GRN 1% S RECARB    | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| GRN PC ANODE       | 0.                         | 0.              | 0.                  | 33.               | 0.                  | -47.                | 21.                  | 35.                    | 0.                  |  |
| SUBTOTAL POOL 4    | 8559.                      | 10539.          | 1980.               | 33.               | 0.                  | -71.                | 79.                  | 118.                   | 0.                  |  |
| POOL 5             |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| GRN HI S FUEL      | 1.                         | 2126.           | 2125.               | 0.                | 205.                | 882.                | 763.                 | 89.                    | 0.                  |  |
| COKE FINES         | 150.                       | 0.              | -150.               | 0.                | 9.                  | 0.                  | -9.                  | 0.                     | 0.                  |  |
| 204 COKE LOSS      | 0.                         | 0.              | 0.                  | 0.                | 0.                  | -18.                | 0.                   | 18.                    | 0.                  |  |
| SUBTOTAL POOL 5    | 151.                       | 2126.           | 1975.               | 0.                | 214.                | 864.                | 755.                 | 107.                   | 0.                  |  |
| TOTAL 204 REFINERY | 12522.                     | 13491.          | 969.                | 35.               | 211.                | 1039.               | 1089.                | 227.                   | 0.                  |  |
| 05 WOODCHIP PAD    |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| POOL 3             |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| 1% S RECARB        | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| SUBTOTAL POOL 3    | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| POOL 4             |                            |                 |                     |                   |                     |                     |                      |                        |                     |  |
| GRN LCH ANODE      | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| GRN PUR ANODE      | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| GRN 1% S RECARB    | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |
| SUBTOTAL POOL 4    | 0.                         | 0.              | 0.                  | 0.                | 0.                  | 0.                  | 0.                   | 0.                     | 0.                  |  |

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|                        | 1990 YTD INVENTORY AND R/S |                 |                |                   |               | 1990 YTD PRODUCTION |                      |                        |                |  |
|------------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|----------------------|------------------------|----------------|--|
|                        | OPENING<br>TONS            | CLOSING<br>TONS | CHANGE<br>TONS | PURCHASE<br>MTONS | SALE<br>MTONS | PRODUCTION<br>MTONS | TO PRODUCTS<br>MTONS | FROM PRODUCTS<br>MTONS | LOADED<br>TONS |  |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN HI S FUEL          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| 205 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 5        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| TOTAL 205 WOODCHIP PAD | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| 206 TRANSPORT          |                            |                 |                |                   |               |                     |                      |                        |                |  |
| POOL 1                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| X COKE                 | 1549.                      | 2576.           | 1027.          | 0.                | 40.           | 0.                  | 7.                   | 48.                    | 0.             |  |
| LS RECARB              | 805.                       | 0.              | -805.          | 0.                | 4.            | 0.                  | 7.                   | 11.                    | 0.             |  |
| MS RECARB              | 2881.                      | 0.              | -2881.         | 0.                | 1.            | 0.                  | 3.                   | 1.                     | 0.             |  |
| IS RECARB              | 0.                         | 0.              | 0.             | 0.                | 3.            | 0.                  | 0.                   | 3.                     | 0.             |  |
| SUBTOTAL POOL 1        | 5235.                      | 2576.           | -2659.         | 0.                | 48.           | 0.                  | 18.                  | 64.                    | 0.             |  |
| POOL 2                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| NORMAL PREMIUM         | 1425.                      | 1414.           | -11.           | 0.                | 29.           | 0.                  | 1.                   | 30.                    | 0.             |  |
| SHIP PREMIUM           | 1013.                      | 0.              | -1013.         | 0.                | 0.            | 0.                  | 9.                   | 8.                     | 0.             |  |
| BASE PREMIUM           | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 2        | 2438.                      | 1414.           | -1024.         | 0.                | 29.           | 0.                  | 10.                  | 38.                    | 0.             |  |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| NORMAL S RECARB        | 643.                       | 178.            | -465.          | 0.                | 1.            | 0.                  | 4.                   | 4.                     | 0.             |  |
| 1% S RECARB            | 51.                        | 0.              | -51.           | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| LCH ANODE              | 0.                         | 1405.           | 1405.          | 0.                | 1.            | 0.                  | 39.                  | 42.                    | 0.             |  |
| BLENDED ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| HIGH SULFUR            | 95.                        | 0.              | -95.           | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| TI COKE                | 851.                       | 0.              | -851.          | 0.                | 15.           | 0.                  | 2.                   | 16.                    | 0.             |  |
| PC RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 1.                   | 1.                     | 0.             |  |
| PC ANODE               | 0.                         | 0.              | 0.             | 0.                | 5.            | 0.                  | 4.                   | 9.                     | 0.             |  |
| SUBTOTAL POOL 3        | 1640.                      | 1583.           | -57.           | 0.                | 22.           | 0.                  | 50.                  | 72.                    | 0.             |  |
| POOL 4                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN LCH ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| GRN PUR ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 4        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| 206 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| GRN HI S FUEL          | 0.                         | 3638.           | 3638.          | 0.                | 0.            | 0.                  | 0.                   | 4.                     | 0.             |  |
| SUBTOTAL POOL 5        | 0.                         | 3638.           | 3638.          | 0.                | 0.            | 0.                  | 0.                   | 4.                     | 0.             |  |
| TOTAL 206 TRANSPORT    | 9313.                      | 9211.           | -102.          | 0.                | 100.          | 0.                  | 77.                  | 177.                   | 0.             |  |
| 207 PORT ART TML       |                            |                 |                |                   |               |                     |                      |                        |                |  |
| POOL 1                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| X COKE                 | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 1        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |

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|                        | 1990 YTD INVENTORY AND R/S |                 |                |                   |               | 1990 YTD PRODUCTION |                      |                        |                |  |
|------------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|----------------------|------------------------|----------------|--|
|                        | OPENING<br>TONS            | CLOSING<br>TONS | CHANGE<br>TONS | PURCHASE<br>MTONS | SALE<br>MTONS | PRODUCTION<br>MTONS | TO PRODUCTS<br>MTONS | FROM PRODUCTS<br>MTONS | LOADED<br>TONS |  |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| NORMAL S RECARB        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| PC RECARB              | 0.                         | 0.              | 0.             | 0.                | 7.            | 0.                  | 0.                   | 7.                     | 0.             |  |
| HIGH SULFUR            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| TI COKE                | 4350.                      | 0.              | -4350.         | 0.                | 9.            | 0.                  | 0.                   | 5.                     | 0.             |  |
| LCH ANODE              | 0.                         | 0.              | 0.             | 0.                | 6.            | 0.                  | 0.                   | 6.                     | 0.             |  |
| PC ANODE               | 0.                         | 0.              | 0.             | 0.                | 2.            | 0.                  | 4.                   | 6.                     | 0.             |  |
| SUBTOTAL POOL 3        | 4350.                      | 0.              | -4350.         | 0.                | 23.           | 0.                  | 5.                   | 23.                    | 0.             |  |
| POOL 4                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN X COKE             | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| GRN NORM RECARB        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| GRN PC ANODE           | 0.                         | 0.              | 0.             | 0.                | 1.            | 0.                  | 12.                  | 13.                    | 0.             |  |
| GRN LCH ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 9.                   | 9.                     | 0.             |  |
| SUBTOTAL POOL 4        | 0.                         | 0.              | 0.             | 0.                | 1.            | 0.                  | 21.                  | 22.                    | 0.             |  |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN HI S FUEL          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | -1.                  | -1.                    | 0.             |  |
| 207 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | 5.                  | 0.                   | -5.                    | 0.             |  |
| SUBTOTAL POOL 5        | 0.                         | 0.              | 0.             | 0.                | 0.            | 5.                  | -1.                  | -6.                    | 0.             |  |
| TOTAL 207 PORT ARI TML | 4350.                      | 0.              | -4350.         | 0.                | 24.           | 5.                  | 24.                  | 39.                    | 0.             |  |
| 08 SOHIO TML           |                            |                 |                |                   |               |                     |                      |                        |                |  |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| PC RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 1.                   | 1.                     | 0.             |  |
| PC ANODE               | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| LCH ANODE              | 1162.                      | 166.            | -996.          | 0.                | 39.           | 0.                  | 1.                   | 39.                    | 0.             |  |
| 1% S RECARB            | 378.                       | 0.              | -378.          | 0.                | 1.            | 0.                  | 0.                   | 1.                     | 0.             |  |
| SUBTOTAL POOL 3        | 1540.                      | 166.            | -1374.         | 0.                | 40.           | 0.                  | 2.                   | 40.                    | 0.             |  |
| POOL 4                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN PC ANODE           | 0.                         | 1556.           | 1556.          | 2.                | 0.            | 0.                  | 22.                  | 22.                    | 0.             |  |
| SUBTOTAL POOL 4        | 0.                         | 1556.           | 1556.          | 2.                | 0.            | 0.                  | 22.                  | 22.                    | 0.             |  |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| 208 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | -1.                 | 0.                   | 1.                     | 0.             |  |
| SUBTOTAL POOL 5        | 0.                         | 0.              | 0.             | 0.                | 0.            | -1.                 | 0.                   | 1.                     | 0.             |  |
| TOTAL 208 SOHIO TML    | 1540.                      | 1722.           | 182.           | 2.                | 40.           | -1.                 | 24.                  | 64.                    | 0.             |  |
| 09 REYNOLDS PAD        |                            |                 |                |                   |               |                     |                      |                        |                |  |
| POOL 4                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| GRN LCH ANODE          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 4        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |  |
| 209 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| SUBTOTAL POOL 5        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |
| TOTAL 209 REYNOLDS PAD | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |  |

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|                        | 1990 YTD INVENTORY AND R/S |                 |                |                   |               | 1990 YTD PRODUCTION |                      |                        |                |
|------------------------|----------------------------|-----------------|----------------|-------------------|---------------|---------------------|----------------------|------------------------|----------------|
|                        | OPENING<br>TONS            | CLOSING<br>TONS | CHANGE<br>TONS | PURCHASE<br>MTONS | SALE<br>MTONS | PRODUCTION<br>MTONS | TO PRODUCTS<br>MTONS | FROM PRODUCTS<br>MTONS | LOADED<br>TONS |
| 210 PURCH/RESALE       |                            |                 |                |                   |               |                     |                      |                        |                |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |
| CALC LOW SULFUR        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| SUBTOTAL POOL 3        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| TOTAL 210 PURCH/RESALE | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| 211 BP TERMINAL        |                            |                 |                |                   |               |                     |                      |                        |                |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |
| GRN HI S FUEL          | 2484.                      | 0.              | -2484.         | 0.                | 0.            | 0.                  | 11.                  | 9.                     | 0.             |
| SUBTOTAL POOL 5        | 2484.                      | 0.              | -2484.         | 0.                | 0.            | 0.                  | 11.                  | 9.                     | 0.             |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |
| HIGH SULFUR            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| TI COKE                | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 8.                   | 8.                     | 0.             |
| SUBTOTAL POOL 3        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 8.                   | 8.                     | 0.             |
| TOTAL 211 BP TERMINAL  | 2484.                      | 0.              | -2484.         | 0.                | 0.            | 0.                  | 19.                  | 17.                    | 0.             |
| 212 VENCO TML          |                            |                 |                |                   |               |                     |                      |                        |                |
| POOL 5                 |                            |                 |                |                   |               |                     |                      |                        |                |
| GRN HI S FUEL          | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| 212 COKE LOSS          | 0.                         | 0.              | 0.             | 0.                | 0.            | 1.                  | 0.                   | -1.                    | 0.             |
| SUBTOTAL POOL 5        | 0.                         | 0.              | 0.             | 0.                | 0.            | 1.                  | 0.                   | -1.                    | 0.             |
| POOL 3                 |                            |                 |                |                   |               |                     |                      |                        |                |
| HIGH SULFUR            | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| TI COKE                | 0.                         | 0.              | 0.             | 0.                | 9.            | 0.                  | -2.                  | 8.                     | 0.             |
| SUBTOTAL POOL 3        | 0.                         | 0.              | 0.             | 0.                | 9.            | 0.                  | -2.                  | 8.                     | 0.             |
| TOTAL 212 VENCO TML    | 0.                         | 0.              | 0.             | 0.                | 9.            | 1.                  | -2.                  | 7.                     | 0.             |
| 213 TURNER TML         |                            |                 |                |                   |               |                     |                      |                        |                |
| POOL 1                 |                            |                 |                |                   |               |                     |                      |                        |                |
| LS RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| MS RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| IS RECARB              | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| SUBTOTAL POOL 1        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| POOL 2                 |                            |                 |                |                   |               |                     |                      |                        |                |
| NORMAL PREMIUM         | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| SUBTOTAL POOL 2        | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |
| TOTAL 213 TURNER TML   | 0.                         | 0.              | 0.             | 0.                | 0.            | 0.                  | 0.                   | 0.                     | 0.             |

TOTAL COKE TRANSFERS 171621. 181475. 9854. 36. 1120. 1015. 1360. 1439. 0.  
 FOR THE MONTH OF DEC FILE MN02 WILL BE USED AND FOR THE PREVIOUS MONTH, FILE MN01 WILL BE USED.

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## MEOS - MONTH END AND YEAR TO DATE FINAL UNIT YIELD REPORT

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\*\*\*\* UNIT 03 - NO. 3 CTU 8 VAC HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 340.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER |        | YEAR TO DATE |        |         |       |         |       |
|-------------------|----------|--------|--------------|--------|---------|-------|---------|-------|
|                   | VOLUME   | WEIGHT | VOLUME       | WEIGHT |         |       |         |       |
| **** CHARGES **** | BILS     | PCT    | MLBS         | PCT    | MBBLS   | PCT   | MMLBS   | PCT   |
| CONOCO PIPELINE   | 0        | 0.0    | 0            | 0.0    | 21.8    | 0.1   | 6.6     | 0.0   |
| TEXACO PIPELINE   | 5495.    | 0.1    | 1592.        | 0.1    | 67.3    | 0.2   | 19.8    | 0.1   |
| CONDENSATE        | 103702.  | 2.6    | 28437.       | 2.2    | 331.4   | 0.8   | 91.1    | 0.7   |
| DOMESTIC BARGE    | 3872.    | 0.1    | 1121.        | 0.1    | 87.4    | 0.2   | 25.5    | 0.2   |
| ALASKAN N/S/PE    | 0        | 0.0    | 0            | 0.0    | 1754.6  | 4.3   | 551.0   | 4.2   |
| E-4               | 0        | 0.0    | 0            | 0.0    | 0.1     | 0.0   | 0.0     | 0.0   |
| W. COAST SOUR     | 220497.  | 5.6    | 67752.       | 5.3    | 1042.1  | 2.5   | 320.2   | 2.4   |
| FURRIAL           | 0        | 0.0    | 0            | 0.0    | 1064.1  | 2.6   | 324.0   | 2.5   |
| OMAN EGYPT        | 0        | 0.0    | 0            | 0.0    | 537.6   | 1.3   | 159.7   | 1.2   |
| SCF22 VENEZUELA   | 789176.  | 20.0   | 254832.      | 20.0   | 5200.2  | 12.7  | 1679.3  | 12.7  |
| MESA 30           | 0        | 0.0    | 0            | 0.0    | 400.2   | 1.0   | 122.0   | 0.9   |
| MEREY             | 1561632. | 39.6   | 524660.      | 41.1   | 13489.3 | 33.0  | 4533.6  | 34.3  |
| ORIENTE EQUADOR   | 0        | 0.0    | 0            | 0.0    | 0.7     | 0.0   | 0.2     | 0.0   |
| PILON             | 0        | 0.0    | 0            | 0.0    | 966.8   | 2.4   | 331.7   | 2.5   |
| MAYA              | 977958.  | 24.8   | 315717.      | 24.7   | 12777.9 | 31.2  | 4126.7  | 31.2  |
| NAPHTHA C/STOCK   | 123964.  | 3.1    | 32593.       | 2.6    | 795.5   | 1.9   | 209.4   | 1.6   |
| SLOP              | 2793.    | 0.1    | 771.         | 0.1    | 278.1   | 0.7   | 77.2    | 0.6   |
| SLOP FROM STRGE   | 26025.   | 0.7    | 8230.        | 0.6    | 455.1   | 1.1   | 143.9   | 1.1   |
| SABINE HAD        | 8230.    | 0.2    | 2496.        | 0.2    | 204.2   | 0.5   | 61.9    | 0.5   |
| SEAL OIL FLUSH    | 103989.  | 2.6    | 32924.       | 2.6    | 1021.5  | 2.5   | 324.5   | 2.5   |
| #4/5 HDS GASO     | 18762.   | 0.5    | 4595.        | 0.4    | 413.7   | 1.0   | 97.8    | 0.7   |
| TOTAL             | 3946095. | 100.0  | 1275717.     | 100.0  | 40909.5 | 100.0 | 13206.2 | 100.0 |

## \*\*\*\* YIELDS \*\*\*\*

|                      |     |          |       |          |       |         |       |         |       |
|----------------------|-----|----------|-------|----------|-------|---------|-------|---------|-------|
| STAB OH GAS          | ELB | 23266.   | 0.6   | 4710.    | 0.4   | 274.1   | 0.7   | 55.5    | 0.4   |
| STAB OH GAS-FUEL FDE |     | 0        | 0.0   | 0        | 0.0   | 0.9     | 0.0   | 0.3     | 0.0   |
| STAB OH LIO          |     | 47152.   | 1.2   | 10592.   | 0.8   | 381.2   | 0.9   | 81.2    | 0.6   |
| STAB LSR             |     | 201636.  | 5.1   | 50371.   | 3.9   | 1821.3  | 4.5   | 453.1   | 3.4   |
| NAPHTHA              |     | 288189.  | 7.3   | 76854.   | 6.0   | 2903.9  | 7.1   | 773.9   | 5.9   |
| KEROSENE             |     | 519059.  | 13.2  | 150241.  | 11.8  | 4870.6  | 11.9  | 1401.8  | 10.6  |
| DIESEL               |     | 286426.  | 7.3   | 87347.   | 6.8   | 3346.0  | 8.2   | 1016.3  | 7.7   |
| GAS OIL              |     | 80542.   | 2.0   | 25835.   | 2.0   | 1162.0  | 2.8   | 367.5   | 2.8   |
| SEAL OIL FLUSH       |     | 207254.  | 5.3   | 65620.   | 5.1   | 1984.3  | 4.9   | 630.4   | 4.8   |
| LVGO                 |     | 247178.  | 6.3   | 78273.   | 6.1   | 3472.0  | 8.5   | 1103.1  | 8.4   |
| HVGO                 |     | 697760.  | 17.7  | 230439.  | 18.1  | 6993.0  | 17.1  | 2305.6  | 17.5  |
| VACUUM RESID         |     | 1398204. | 35.4  | 511249.  | 40.1  | 13894.1 | 34.0  | 5100.9  | 38.6  |
| SLOP                 |     | 0        | 0.0   | 0        | 0.0   | 43.7    | 0.1   | 12.5    | 0.1   |
| LOSS                 |     | -50571.  | -1.3  | -15812.  | -1.2  | -237.6  | -0.6  | -95.9   | -0.7  |
| TOTAL                |     | 3946095. | 100.0 | 1275717. | 100.0 | 40909.5 | 100.0 | 13206.2 | 100.0 |

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## CONOCO INC.-LAKE CHARLES REFINERY

## ME05 - MONTH END AND YEAR TO DATE FINAL UNIT YIELD REPORT

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\*\*\*\* UNIT 10 - NO. 4 HDS HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 336.29 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER       |       |                |       | YEAR TO DATE    |       |                 |       |
|-----------------------------|----------------|-------|----------------|-------|-----------------|-------|-----------------|-------|
|                             | VOLUME<br>BBLs | PCT   | WEIGHT<br>MLBS | PCT   | VOLUME<br>MBBLs | PCT   | WEIGHT<br>MMLBS | PCT   |
| HPU HYDROGEN FDE            | 7271.          | 0.8   | 1013.          | 0.4   | 75.3            | 0.8   | 10.3            | 0.4   |
| HDS STRIP OH                | 0.             | 0.0   | 0.             | 0.0   | 90.1            | 1.0   | 23.0            | 0.9   |
| #5 HDS SEP H2 FDE           | 38978.         | 4.3   | 7016.          | 2.8   | 400.8           | 4.3   | 63.7            | 2.5   |
| H2 #1 2 & HPU FDE           | 12924.         | 1.4   | 2212.          | 0.9   | 160.7           | 1.7   | 26.9            | 1.0   |
| #3 CTU KEROSENE             | 0.             | 0.0   | 0.             | 0.0   | 971.7           | 10.5  | 280.2           | 10.8  |
| #3 CTU DIESEL               | 286426.        | 31.8  | 87347.         | 34.3  | 2737.7          | 29.6  | 831.9           | 32.1  |
| CRACKED DISTILLA            | 195500.        | 21.7  | 57869.         | 22.8  | 1814.4          | 19.6  | 536.9           | 20.7  |
| CRACKED NAPHTHA             | 237192.        | 26.3  | 63345.         | 24.9  | 2352.5          | 25.4  | 635.3           | 24.5  |
| NO. 6 HDS GASOLI            | 123826.        | 13.7  | 35551.         | 14.0  | 648.2           | 7.0   | 180.7           | 7.0   |
| TOTAL                       | 902117.        | 100.0 | 254353.        | 100.0 | 9251.3          | 100.0 | 2589.0          | 100.0 |
| **** YIELDS ****            |                |       |                |       |                 |       |                 |       |
| CRACKED GASOLINE            | 53287.         | 5.9   | 13065.         | 5.1   | 478.0           | 5.2   | 113.6           | 4.4   |
| H2S RECOVERED FDE           | 3885.          | 0.4   | 3439.          | 1.4   | 23.4            | 0.3   | 20.7            | 0.8   |
| H2 TO #5 HDS FDE            | 47216.         | 5.2   | 8718.          | 3.4   | 485.8           | 5.3   | 88.8            | 3.4   |
| STRP OH GAS ELB             | 10888.         | 1.2   | 3786.          | 1.5   | 141.6           | 1.5   | 41.5            | 1.6   |
| DES DISTILLATE              | 509320.        | 56.5  | 152868.        | 60.1  | 4505.3          | 48.7  | 1349.0          | 52.1  |
| DES KEROSENE                | 142367.        | 15.8  | 40104.         | 15.8  | 1860.0          | 20.1  | 527.6           | 20.4  |
| DES NAPHTHA                 | 205776.        | 22.8  | 53988.         | 21.2  | 1845.1          | 19.9  | 485.4           | 18.8  |
| SLOP                        | 0.             | 0.0   | 0.             | 0.0   | 139.3           | 1.5   | 40.2            | 1.6   |
| LOSS                        | -70622.        | -7.8  | -21613.        | -8.5  | -227.3          | -2.5  | -77.9           | -3.0  |
| TOTAL                       | 902117.        | 100.0 | 254353.        | 100.0 | 9251.3          | 100.0 | 2589.0          | 100.0 |

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\*\*\*\* UNIT 14 - NO. 5 HDS HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 337.85 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER |       |         |       | YEAR TO DATE |       |        |       |
|-------------------|----------|-------|---------|-------|--------------|-------|--------|-------|
|                   | VOLUME   |       | WEIGHT  |       | VOLUME       |       | WEIGHT |       |
| **** CHARGES **** | BBLS     | PCT   | MLBS    | PCT   | MBBLS        | PCT   | MMLBS  | PCT   |
| #3 CTU DIESEL     | 0.       | 0.0   | 0.      | 0.0   | 573.3        | 10.2  | 173.7  | 10.8  |
| #3 CTU KERSENE    | 519059.  | 82.6  | 150241. | 85.2  | 3435.9       | 61.0  | 988.7  | 61.6  |
| CRACKED DISTILLA  | 0.       | 0.0   | 0.      | 0.0   | 995.6        | 17.7  | 313.8  | 19.6  |
| DES KERSONE       | 61788.   | 9.8   | 17405.  | 9.9   | 141.6        | 2.5   | 39.9   | 2.5   |
| H2 EM #4 HDS FDE  | 47216.   | 7.5   | 8718.   | 4.9   | 485.8        | 8.6   | 88.8   | 5.5   |
| TOTAL             | 628063.  | 100.0 | 176364. | 100.0 | 5632.2       | 100.0 | 1605.0 | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                   |         |       |         |       |        |       |        |       |
|-------------------|---------|-------|---------|-------|--------|-------|--------|-------|
| STP OVHD TO #4    | 0.      | 0.0   | 0.      | 0.0   | 90.1   | 1.6   | 23.0   | 1.4   |
| HYDR SULFIDE FDE  | 1097.   | 0.2   | 971.    | 0.6   | 9.5    | 0.2   | 8.4    | 0.5   |
| SWEET SEP HYD FDE | 38978.  | 6.2   | 7016.   | 4.0   | 400.8  | 7.1   | 63.7   | 4.0   |
| DES DIST          | 0.      | 0.0   | 0.      | 0.0   | 1501.9 | 26.7  | 468.7  | 29.2  |
| DES KEROSENE      | 520925. | 82.9  | 150014. | 85.1  | 3337.1 | 59.2  | 956.1  | 59.6  |
| LOSS              | 67063.  | 10.7  | 18363.  | 10.4  | 293.0  | 5.2   | 85.1   | 5.3   |
| TOTAL             | 628063. | 100.0 | 176364. | 100.0 | 5632.2 | 100.0 | 1605.0 | 100.0 |

\*\*\*\* UNIT 24 - MTBE HAS BEEN ON STREAM 30.9 DAYS IN DECEMBER AND 140.45 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
| **** CHARGES **** | BBLS     | PCT   | MLBS   | PCT   | MBBLS        | PCT   | MMLBS  | PCT   |
| FCC B-B           | 261096.  | 97.3  | 53258. | 96.4  | 1061.4       | 97.1  | 216.8  | 96.1  |
| METHANOL          | 7370.    | 2.7   | 1995.  | 3.6   | 32.6         | 3.0   | 8.8    | 3.9   |
| TOTAL             | 268466.  | 100.0 | 55254. | 100.0 | 1094.0       | 100.0 | 225.6  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|             |         |       |        |       |        |       |       |       |
|-------------|---------|-------|--------|-------|--------|-------|-------|-------|
| MTBE        | 25555.  | 9.5   | 6771.  | 12.3  | 141.8  | 13.0  | 37.6  | 16.7  |
| SPENT B-B   | 197838. | 73.7  | 40260. | 72.9  | 854.7  | 78.1  | 174.8 | 77.5  |
| BY-PASS B-B | 24581.  | 9.2   | 4998.  | 9.0   | 54.1   | 4.9   | 11.1  | 4.9   |
| LOSS        | 20492.  | 7.6   | 3225.  | 5.8   | 43.4   | 4.0   | 2.2   | 1.0   |
| TOTAL       | 268466. | 100.0 | 55254. | 100.0 | 1094.0 | 100.0 | 225.6 | 100.0 |

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\*\*\*\* UNIT 82 - NO. 3 CRU & HDS HAS BEEN ON STREAM 28.8 DAYS IN DECEMBER AND 344.87 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER       |               | YEAR TO DATE   |               | DECEMBER        |               | YEAR TO DATE    |               |
|-----------------------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|                             | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| HYD ERM NO.1 HDS FOF        | 228            | 0.1           | 35             | 0.0           | 1.3             | 0.0           | 0.2             | 0.0           |
| NAPHTHA                     | 409406.        | 99.9          | 106149.        | 100.0         | 4554.5          | 99.9          | 1192.5          | 99.9          |
| #2 NHDS NAPHTHA             | 0.             | 0.0           | 0.             | 0.0           | 3.3             | 0.1           | 0.9             | 0.1           |
| TOTAL                       | 409634.        | 100.0         | 106184.        | 100.0         | 4559.1          | 100.0         | 1193.6          | 100.0         |

## \*\*\*\* YIELDS \*\*\*\*

|                      |         |       |         |       |        |       |        |       |
|----------------------|---------|-------|---------|-------|--------|-------|--------|-------|
| ABSORBER H2 FOF      | 34499   | 8.4   | 6769    | 6.4   | 537.3  | 11.8  | 105.6  | 8.8   |
| STAB GAS TO FUEL FOF | 207.    | 0.1   | 51.     | 0.0   | 3.8    | 0.1   | 1.1    | 0.1   |
| SWEET NAPH/STOR      | 0.      | 0.0   | 0.      | 0.0   | 10.6   | 0.2   | 2.8    | 0.2   |
| #3 STRIP OH LIQ      | 33032.  | 8.1   | 6061.   | 5.7   | 155.1  | 3.4   | 29.0   | 2.4   |
| STRIP/STAB OFF G ELB | 1302.   | 0.3   | 279.    | 0.3   | 30.4   | 0.7   | 6.5    | 0.5   |
| REFORMATE            | 315217. | 77.0  | 87711.  | 82.6  | 3589.4 | 78.7  | 1013.5 | 84.9  |
| LOSS                 | 25377.  | 6.2   | 5313.   | 5.0   | 232.5  | 5.1   | 35.1   | 2.9   |
| TOTAL                | 409634. | 100.0 | 106184. | 100.0 | 4559.1 | 100.0 | 1193.6 | 100.0 |

## DECEMBER ENDING VALUES

REFORMATE RONC 96.47

\*\*\*\* UNIT 25 - LVT - 200 HAS BEEN ON STREAM 28.4 DAYS IN DECEMBER AND 274.07 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER       |               | YEAR TO DATE   |               | DECEMBER        |               | YEAR TO DATE    |               |
|-----------------------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|                             | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| MOLEX RAFFINATE             | 70529.         | 94.9          | 19993.         | 97.5          | 917.5           | 95.4          | 260.1           | 97.8          |
| H2 MAKEUP FOF               | 3766.          | 5.1           | 508.           | 2.5           | 44.0            | 4.6           | 5.8             | 2.2           |
| TOTAL                       | 74295.         | 100.0         | 20501.         | 100.0         | 961.5           | 100.0         | 265.9           | 100.0         |

## \*\*\*\* YIELDS \*\*\*\*

|                  |        |       |        |       |       |       |       |       |
|------------------|--------|-------|--------|-------|-------|-------|-------|-------|
| LVT 200          | 27060  | 36.4  | 7796   | 38.0  | 353.1 | 36.7  | 101.6 | 38.2  |
| LVT LIGHT        | 41526. | 55.9  | 11709. | 57.1  | 501.5 | 52.2  | 141.6 | 53.3  |
| LIGHT ENDS ELB   | 159.   | 0.2   | 29.    | 0.1   | 1.9   | 0.2   | 0.4   | 0.1   |
| H2 PURGE FOF     | 2109.  | 2.8   | 241.   | 1.2   | 16.8  | 1.7   | 1.9   | 0.7   |
| EXCESS OH LIQUID | 1874.  | 2.5   | 519.   | 2.5   | 52.7  | 5.5   | 14.6  | 5.5   |
| LOSS             | 1567.  | 2.1   | 207.   | 1.0   | 35.5  | 3.7   | 5.9   | 2.2   |
| TOTAL            | 74295. | 100.0 | 20501. | 100.0 | 961.5 | 100.0 | 265.9 | 100.0 |

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\*\*\*\* UNIT 38 - REGULAR COKER HAS BEEN ON STREAM 10.7 DAYS IN DECEMBER AND 30.79 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| #3 VAC RESID      | 0              | 0.0           | 1.1             | 0.3           |
| CC BRIGHT STOCK   | 13176          | 12.3          | 86.5            | 26.1          |
| CC RESIDUUM       | 93617          | 87.7          | 236.0           | 71.3          |
| ANODE VAC RES     | 0              | 0.0           | 7.6             | 2.3           |
| PYRO TAR          | 0              | 0.0           | 0.0             | 0.0           |
| TOTAL             | 106793         | 100.0         | 331.2           | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM          | UNIT | DECEMBER       | YEAR TO DATE  |
|-----------------|------|----------------|---------------|
|                 |      | VOLUME<br>BBLs | WEIGHT<br>PCT |
| COKER GAS       | ELB  | 29093          | 27.2          |
| REG COKER GASO  |      | 19180          | 18.0          |
| LIE COK GAS OIL |      | 34269          | 32.1          |
| HVY COK GAS OIL |      | 28701          | 26.9          |
| GRN LCH ANODE   | TONS | 3044           | 2.9           |
| LOSS            |      | -7494          | -7.0          |
| TOTAL           |      | 106793         | 100.0         |

\*\*\*\* UNIT 39 - PREMIUM COKER HAS BEEN ON STREAM 20.3 DAYS IN DECEMBER AND 298.36 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| ANODE VAC RESID   | 0              | 0.0           | 7.4             | 0.2           |
| CC RESIDUUM       | 0              | 0.0           | 48.9            | 1.5           |
| CC BRIGHT STOCK   | 0              | 0.0           | 26.4            | 0.8           |
| THERMAL TAR       | 141078         | 98.9          | 2325.6          | 70.4          |
| VACUUM RESID      | 0              | 0.0           | 0.3             | 0.0           |
| CRK DIST FM STGE  | 0              | 0.0           | 1.0             | 0.0           |
| PYRO TAR          | 0              | 0.0           | 534.3           | 16.2          |
| FCC LCO           | 0              | 0.0           | 201.7           | 6.1           |
| HCCO RECYCLE      | 2040           | 1.1           | 156.1           | 4.7           |
| TOTAL             | 193118         | 100.0         | 3301.6          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM           | UNIT | DECEMBER       | YEAR TO DATE  |
|------------------|------|----------------|---------------|
|                  |      | VOLUME<br>BBLs | WEIGHT<br>PCT |
| COKER GAS        | ELB  | 26291          | 13.6          |
| COKER GAS-FUEL   | FOE  | 261            | 0.1           |
| GASOLINE         |      | 3521           | 1.8           |
| LCO              |      | 30343          | 15.7          |
| HCCO             |      | 97914          | 50.7          |
| GRN NORM PREMIUM | TONS | 0              | 0.0           |
| GRN INTR PREMIUM | TONS | 0              | 0.0           |
| GRN LS RECARB    | TONS | 0              | 0.0           |

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| GRN X COKE      | TONS | 11610.  | 6.0   | 23220. | 31.7  | 73.6   | 2.2   | 147.2  | 12.0  |
|-----------------|------|---------|-------|--------|-------|--------|-------|--------|-------|
| GRN NORM RECARB | TONS | 741.    | 0.4   | 1482.  | 2.0   | 13.3   | 0.4   | 26.5   | 2.2   |
| LOSS            |      | 22437   | 11.6  | -6559  | -9.0  | 517.0  | 15.7  | 2.1    | 0.2   |
| TOTAL           |      | 193118. | 100.0 | 73242. | 100.0 | 3301.6 | 100.0 | 1226.3 | 100.0 |

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\*\*\*\* UNIT 56 - NO. 1 CALCINER HAS BEEN ON STREAM 0.0 DAYS IN DECEMBER AND 121.24 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |      | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   |      | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
|                   |      | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| **** CHARGES **** |      |          |       |        |       |              |       |        |       |
| GRN LCH ANODE     | TONS | 0.       | 0.0   | 0.     | 0.0   | 3.6          | 8.5   | 7.2    | 8.5   |
| GRN PC ANODE      | TONS | 0.       | 0.0   | 0.     | 0.0   | 16.9         | 40.1  | 33.9   | 40.1  |
| GRN HI S FUEL     | TONS | 0.       | 0.0   | 0.     | 0.0   | 21.8         | 51.4  | 43.5   | 51.4  |
| TOTAL             |      | 0.       | 100.0 | 0.     | 100.0 | 42.3         | 100.0 | 84.6   | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|             |      |    |       |    |       |      |       |      |       |
|-------------|------|----|-------|----|-------|------|-------|------|-------|
| LCH ANODE   | TONS | 0. | 0.0   | 0. | 0.0   | 2.7  | 6.5   | 5.5  | 6.5   |
| PC RECARB   | TONS | 0. | 0.0   | 0. | 0.0   | 3.5  | 8.2   | 7.0  | 8.2   |
| TI COKE     | TONS | 0. | 0.0   | 0. | 0.0   | 16.5 | 39.1  | 33.1 | 39.1  |
| PC ANODE    | TONS | 0. | 0.0   | 0. | 0.0   | 9.4  | 22.2  | 18.8 | 22.2  |
| COKE BURNED | TONS | 0. | 0.0   | 0. | 0.0   | 10.2 | 24.0  | 20.3 | 24.0  |
| LOSS        |      | 0. | 0.0   | 0. | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |
| TOTAL       |      | 0. | 100.0 | 0. | 100.0 | 42.3 | 100.0 | 84.6 | 100.0 |

\*\*\*\* UNIT 96 - NO. 2 CALCINER HAS BEEN ON STREAM 14.8 DAYS IN DECEMBER AND 306.82 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |      | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   |      | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
|                   |      | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| **** CHARGES **** |      |          |       |        |       |              |       |        |       |
| GRN X COKE        | TONS | 4185.    | 38.4  | 8370.  | 38.4  | 75.9         | 32.2  | 151.8  | 32.2  |
| GRN NORM PREMIUM  | TONS | 3782.    | 34.7  | 7564.  | 34.7  | 39.5         | 16.7  | 78.9   | 16.7  |
| GRN LS RECARB     | TONS | 0.       | 0.0   | 0.     | 0.0   | 26.5         | 11.2  | 52.9   | 11.2  |
| GRN NORM RECARB   | TONS | 752.     | 6.9   | 1504.  | 6.9   | 14.7         | 6.2   | 29.4   | 6.2   |
| GRN INTR PREMIUM  | TONS | 0.       | 0.0   | 0.     | 0.0   | 18.7         | 7.9   | 37.4   | 7.9   |
| GRN LCH ANODE     | TONS | 2181.    | 20.0  | 4362.  | 20.0  | 53.7         | 22.8  | 107.3  | 22.8  |
| GRN PC ANODE      | TONS | 0.       | 0.0   | 0.     | 0.0   | 7.0          | 3.0   | 14.0   | 3.0   |
| TOTAL             |      | 10900.   | 100.0 | 21800. | 100.0 | 235.8        | 100.0 | 471.7  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                 |      |        |       |        |       |       |       |       |       |
|-----------------|------|--------|-------|--------|-------|-------|-------|-------|-------|
| X COKE          | TONS | 3369.  | 30.9  | 6738.  | 30.9  | 61.1  | 25.9  | 122.2 | 25.9  |
| LS RECARB       | TONS | 0.     | 0.0   | 0.     | 0.0   | 21.3  | 9.0   | 42.6  | 9.0   |
| NORMAL S RECARB | TONS | 605.   | 5.6   | 1211.  | 5.6   | 11.8  | 5.0   | 23.6  | 5.0   |
| NORMAL PREMIUM  | TONS | 2949.  | 27.1  | 5898.  | 27.1  | 30.8  | 13.0  | 61.6  | 13.0  |
| INTR PREMIUM    | TONS | 0.     | 0.0   | 0.     | 0.0   | 15.0  | 6.4   | 30.1  | 6.4   |
| LCH ANODE       | TONS | 1771.  | 16.2  | 3542.  | 16.2  | 43.6  | 18.5  | 87.2  | 18.5  |
| PC ANODE        | TONS | 0.     | 0.0   | 0.     | 0.0   | 5.3   | 2.3   | 10.6  | 2.3   |
| COKE BURNED     | TONS | 2206.  | 20.2  | 4412.  | 20.2  | 46.9  | 19.9  | 93.8  | 19.9  |
| LOSS            |      | 0.     | 0.0   | 0.     | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| TOTAL           |      | 10900. | 100.0 | 21800. | 100.0 | 235.8 | 100.0 | 471.7 | 100.0 |

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## CONOCO INC.-LAKE CHARLES REFINERY

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\*\*\*\* UNIT 27 - PT ARTHUR CALCIN HAS BEEN ON STREAM 0.0 DAYS IN DECEMBER AND 31.96 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |      | DECEMBER       |                | YEAR TO DATE    |                 |
|-------------------|------|----------------|----------------|-----------------|-----------------|
|                   |      | VOLUME<br>BBLs | WEIGHT<br>MLBS | VOLUME<br>MBBLs | WEIGHT<br>MMLBS |
| **** CHARGES **** |      |                |                |                 |                 |
| GRN LCH ANODE     | TONS | 0.0            | 0.0            | 8.3             | 16.7            |
| GRN HI S FUEL     | TONS | 0.0            | 0.0            | 4.1             | 8.2             |
| GRN PC ANODE      | TONS | 0.0            | 0.0            | 12.3            | 24.6            |
| TOTAL             |      | 0.0            | 0.0            | 24.7            | 49.5            |

\*\*\*\* YIELDS \*\*\*\*

| STREAM      |      | DECEMBER       |                | YEAR TO DATE    |                 |
|-------------|------|----------------|----------------|-----------------|-----------------|
|             |      | VOLUME<br>BBLs | WEIGHT<br>MLBS | VOLUME<br>MBBLs | WEIGHT<br>MMLBS |
| LCH ANODE   | TONS | 0.0            | 0.0            | 5.8             | 11.7            |
| PC RECARB   | TONS | 0.0            | 0.0            | 3.1             | 6.1             |
| PC ANODE    | TONS | 0.0            | 0.0            | 5.5             | 11.1            |
| TI COKE     | TONS | 0.0            | 0.0            | 3.0             | 6.0             |
| COKE BURNED | TONS | 0.0            | 0.0            | 7.3             | 14.5            |
| LOSS        |      | 0.0            | 0.0            | 0.0             | 0.0             |
| TOTAL       |      | 0.0            | 0.0            | 24.7            | 49.5            |

\*\*\*\* UNIT 21 - BP TERMINAL HAS BEEN ON STREAM 0.0 DAYS IN DECEMBER AND 10.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |      | DECEMBER       |                | YEAR TO DATE    |                 |
|-------------------|------|----------------|----------------|-----------------|-----------------|
|                   |      | VOLUME<br>BBLs | WEIGHT<br>MLBS | VOLUME<br>MBBLs | WEIGHT<br>MMLBS |
| **** CHARGES **** |      |                |                |                 |                 |
| GRN HI S FUEL     | TONS | 0.0            | 0.0            | 10.9            | 21.8            |
| TOTAL             |      | 0.0            | 0.0            | 10.9            | 21.8            |

\*\*\*\* YIELDS \*\*\*\*

| STREAM      |      | DECEMBER       |                | YEAR TO DATE    |                 |
|-------------|------|----------------|----------------|-----------------|-----------------|
|             |      | VOLUME<br>BBLs | WEIGHT<br>MLBS | VOLUME<br>MBBLs | WEIGHT<br>MMLBS |
| TI COKE     | TONS | 0.0            | 0.0            | 7.6             | 15.2            |
| COKE BURNED | TONS | 0.0            | 0.0            | 3.3             | 6.5             |
| LOSS        |      | 0.0            | 0.0            | 0.0             | 0.0             |
| TOTAL       |      | 0.0            | 0.0            | 10.9            | 21.8            |

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\*\*\*\* UNIT 28 - VENCO TERMINAL HAS BEEN ON STREAM 0.0 DAYS IN DECEMBER AND 59.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM | DECEMBER       |               | YEAR TO DATE    |               |
|--------|----------------|---------------|-----------------|---------------|
|        | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |

UNUSUAL SITUATION - NO STREAMS LOCATED

\*\*\*\* YIELDS \*\*\*\*

|             |      |    |       |    |       |      |       |      |       |
|-------------|------|----|-------|----|-------|------|-------|------|-------|
| TL COKE     | TONS | 0. | 0.0   | 0. | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |
| COKE BURNED | TONS | 0. | 0.0   | 0. | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |
| LOSS        |      | 0. | 0.0   | 0. | 0.0   | 0.0  | 0.0   | 0.0  | 0.0   |
| TOTAL       |      | 0. | 100.0 | 0. | 100.0 | 10.9 | 100.0 | 21.8 | 100.0 |

\*\*\*\* UNIT 79 - NO. 2 COKER HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 314.59 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM | DECEMBER       |               | YEAR TO DATE    |               |
|--------|----------------|---------------|-----------------|---------------|
|        | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |

\*\*\*\* CHARGES \*\*\*\*

|                 |          |       |         |       |         |       |        |       |
|-----------------|----------|-------|---------|-------|---------|-------|--------|-------|
| #6 CRACKED GASO | 0.       | 0.0   | 0.      | 0.0   | 183.8   | 1.2   | 63.8   | 1.1   |
| B/D SLOP OIL    | 9173.    | 0.5   | 3361.   | 0.6   | 131.5   | 0.8   | 46.8   | 0.8   |
| RICH SPONGE OIL | 85811.   | 5.1   | 26230.  | 4.3   | 844.4   | 5.3   | 258.7  | 4.6   |
| SEAL OIL FLUSH  | 68878.   | 4.1   | 21808.  | 3.6   | 604.2   | 3.8   | 192.0  | 3.4   |
| #3 VAC RESID    | 1509739. | 89.3  | 553340. | 90.6  | 14031.1 | 87.9  | 5007.5 | 89.0  |
| CC BRIGHT STOCK | 4390.    | 0.3   | 1589.   | 0.3   | 39.4    | 0.2   | 14.2   | 0.3   |
| CC RESIDUUM     | 11583.   | 0.7   | 4009.   | 0.7   | 106.1   | 0.7   | 36.7   | 0.7   |
| ANODE VAC RESID | 384.     | 0.0   | 141.    | 0.0   | 12.4    | 0.1   | 4.5    | 0.1   |
| HOT RESID       | 0.       | 0.0   | 0.      | 0.0   | 3.0     | 0.0   | 1.1    | 0.0   |
| TOTAL           | 1689958. | 100.0 | 610479. | 100.0 | 15955.7 | 100.0 | 5625.2 | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                  |      |          |       |         |       |         |       |        |       |
|------------------|------|----------|-------|---------|-------|---------|-------|--------|-------|
| COKER GAS        | ELB  | 279813.  | 16.6  | 69277.  | 11.4  | 2754.4  | 17.3  | 673.8  | 12.0  |
| COKER GASOLINE   |      | 216132.  | 12.8  | 55674.  | 9.1   | 2008.7  | 12.6  | 520.4  | 9.3   |
| LT COKER GAS OIL |      | 520267.  | 30.8  | 159037. | 26.1  | 4922.0  | 30.8  | 1507.9 | 26.8  |
| HV COKER GAS OIL |      | 295547.  | 17.5  | 99489.  | 16.3  | 2597.6  | 16.3  | 881.4  | 15.7  |
| LEAN SPG OIL     |      | 60389.   | 3.6   | 18612.  | 3.0   | 624.6   | 3.9   | 191.4  | 3.4   |
| GRN HI S FUEL    | TONS | 99565.   | 5.9   | 199131. | 32.6  | 918.3   | 5.8   | 1836.5 | 32.6  |
| LOSS             |      | 217746.  | 12.9  | 8759.   | 1.4   | 2130.2  | 13.4  | 13.8   | 0.2   |
| TOTAL            |      | 1689958. | 100.0 | 610479. | 100.0 | 15955.7 | 100.0 | 5625.2 | 100.0 |

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|                                                                                                               |      |          |       |        |       |              |       |        |       |
|---------------------------------------------------------------------------------------------------------------|------|----------|-------|--------|-------|--------------|-------|--------|-------|
| **** UNIT 81 - NO.2 COKER-ANODE HAS BEEN ON STREAM 0.0 DAYS IN DECEMBER AND 32.73 DAYS TO DATE THIS YEAR **** |      |          |       |        |       |              |       |        |       |
|                                                                                                               |      | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|                                                                                                               |      | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
| STREAM                                                                                                        |      | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| **** CHARGES ****                                                                                             |      |          |       |        |       |              |       |        |       |
| #6 CRACKED GASO                                                                                               |      | 0.       | 0.0   | 0.     | 0.0   | 0.3          | 0.0   | 0.1    | 0.0   |
| B/D SLOP OIL                                                                                                  |      | 0.       | 0.0   | 0.     | 0.0   | 17.0         | 1.3   | 5.9    | 1.3   |
| RICH SPONGE OIL                                                                                               |      | 0.       | 0.0   | 0.     | 0.0   | 63.5         | 4.8   | 19.2   | 4.2   |
| SEAL OIL FLUSH                                                                                                |      | 0.       | 0.0   | 0.     | 0.0   | 88.2         | 6.7   | 27.9   | 6.1   |
| #3 VAC RESID                                                                                                  |      | 0.       | 0.0   | 0.     | 0.0   | 12.1         | 0.9   | 4.5    | 1.0   |
| CC BRIGHT STOCK                                                                                               |      | 0.       | 0.0   | 0.     | 0.0   | 179.7        | 13.6  | 65.0   | 14.3  |
| CC RESIDUMN                                                                                                   |      | 0.       | 0.0   | 0.     | 0.0   | 902.4        | 68.3  | 311.4  | 68.4  |
| ANODE VAC RESID                                                                                               |      | 0.       | 0.0   | 0.     | 0.0   | 58.8         | 4.5   | 21.4   | 4.7   |
| TOTAL                                                                                                         |      | 0.       | 100.0 | 0.     | 100.0 | 1322.1       | 100.0 | 455.2  | 100.0 |
| **** YIELDS ****                                                                                              |      |          |       |        |       |              |       |        |       |
| COKER GAS                                                                                                     | ELB  | 0.       | 0.0   | 0.     | 0.0   | 203.9        | 15.4  | 48.0   | 10.5  |
| COKER GASOLINE                                                                                                |      | 0.       | 0.0   | 0.     | 0.0   | 193.4        | 14.6  | 49.9   | 11.0  |
| LT COKER GAS OIL                                                                                              |      | 0.       | 0.0   | 0.     | 0.0   | 539.5        | 40.8  | 163.1  | 35.8  |
| LV COKER GAS OIL                                                                                              |      | 0.       | 0.0   | 0.     | 0.0   | 251.2        | 19.0  | 84.0   | 18.5  |
| LEAN SPG OIL                                                                                                  |      | 0.       | 0.0   | 0.     | 0.0   | 56.2         | 4.3   | 17.0   | 3.7   |
| GR LCH ANODE                                                                                                  | TONS | 0.       | 0.0   | 0.     | 0.0   | 37.9         | 2.9   | 75.7   | 16.6  |
| LOSS                                                                                                          |      | 0.       | 0.0   | 0.     | 0.0   | 40.0         | 3.0   | 17.5   | 3.8   |
| TOTAL                                                                                                         |      | 0.       | 100.0 | 0.     | 100.0 | 1322.1       | 100.0 | 455.2  | 100.0 |

## ME05 - MONTH END AND YEAR TO DATE FINAL UNIT YIELD REPORT

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\*\*\*\* UNIT 75 - GAS REC PLANT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 345.46 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |     | DECEMBER |        | YEAR TO DATE |        |        |       |        |       |
|-------------------|-----|----------|--------|--------------|--------|--------|-------|--------|-------|
|                   |     | VOLUME   | WEIGHT | VOLUME       | WEIGHT |        |       |        |       |
| **** CHARGES **** |     | BBLs     | PCT    | MLBS         | PCT    | MBBLS  | PCT   | MMLBS  | PCT   |
| MISC LI ENDS      | ELB | 112050.  | 13.3   | 27121.       | 12.7   | 834.2  | 9.8   | 198.5  | 9.2   |
| COKER-TCU GASES   | ELB | 364468.  | 43.2   | 90011.       | 42.2   | 3828.8 | 44.9  | 930.5  | 43.0  |
| CRYO P/B TO GRP   |     | 23797.   | 2.8    | 4668.        | 2.2    | 193.4  | 2.3   | 38.3   | 1.8   |
| #6 HDS GASOLINE   |     | 0.       | 0.0    | 0.           | 0.0    | 176.6  | 2.1   | 57.7   | 2.7   |
| THERMAL GASOLINE  |     | 43814.   | 5.2    | 11045.       | 5.2    | 486.8  | 5.7   | 124.3  | 5.8   |
| COKER GASOLINE    |     | 238833.  | 28.3   | 61594.       | 28.9   | 2328.3 | 27.3  | 604.0  | 27.9  |
| #2 CK LN SPG OIL  |     | 60888.   | 7.2    | 18612.       | 8.7    | 680.8  | 8.0   | 208.4  | 9.6   |
| TOTAL             |     | 843850.  | 100.0  | 213051.      | 100.0  | 8529.0 | 100.0 | 2161.7 | 100.0 |

## \*\*\*\* YIELDS \*\*\*\*

|                  |     |         |       |         |       |        |       |        |       |
|------------------|-----|---------|-------|---------|-------|--------|-------|--------|-------|
| ABS TAIL GAS     | FOE | 184898. | 21.9  | 50505.  | 23.7  | 1910.6 | 22.4  | 524.8  | 24.3  |
| PROPANE PROPYLEN |     | 79180.  | 9.4   | 14187.  | 6.7   | 891.9  | 10.5  | 159.6  | 7.4   |
| BUTANE BUTYLENE  |     | 87587.  | 10.4  | 17973.  | 8.4   | 897.1  | 10.5  | 183.0  | 8.5   |
| GRP GASOLINE     |     | 398273. | 47.2  | 101153. | 47.5  | 3822.0 | 44.8  | 976.2  | 45.2  |
| SPONGE OIL       |     | 85811.  | 10.2  | 26230.  | 12.3  | 907.9  | 10.6  | 277.9  | 12.9  |
| H2S              | FOE | 15320.  | 1.8   | 13561.  | 6.4   | 100.9  | 1.2   | 89.3   | 4.1   |
| LOSS             |     | -7219.  | -0.9  | -10558. | -5.0  | -1.4   | 0.0   | -49.2  | -2.3  |
| TOTAL            |     | 843850. | 100.0 | 213051. | 100.0 | 8529.0 | 100.0 | 2161.7 | 100.0 |

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\*\*\*\* UNIT 74 - NO. 6 HDS HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 332.62 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| #2 HDS SEP LIQ    | 46246.         | 5.2           | 75.2            | 0.9           |
| #7 & #8 STROVHD   | 69735.         | 7.8           | 771.5           | 9.2           |
| RECYCLE H2        | 60611.         | 6.8           | 658.5           | 7.9           |
| CRACKED DISTILLA  | 717448.        | 80.2          | 6860.5          | 82.0          |
| TOTAL             | 894040.        | 100.0         | 8365.7          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM           | DECEMBER       |               | YEAR TO DATE    |               |
|------------------|----------------|---------------|-----------------|---------------|
|                  | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| SEP H2 TO HPU    | 51820.         | 5.8           | 660.0           | 7.9           |
| HYDROGEN SULFIDE | 3117.          | 0.3           | 26.2            | 0.3           |
| STRIPPER OH GAS  | 14932.         | 1.7           | 192.9           | 2.3           |
| STRIPPER REFLUX  | 15844.         | 1.8           | 220.4           | 2.6           |
| #3 HDS GASOLINE  | 89301.         | 10.0          | 937.1           | 11.2          |
| DES DISTILLATE   | 674524.        | 75.4          | 6266.7          | 74.9          |
| LOSS             | 44502.         | 5.0           | 62.4            | 0.7           |
| TOTAL            | 894040.        | 100.0         | 8365.7          | 100.0         |

\*\*\*\* UNIT 84 - NO. 8 HDS HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 342.35 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| KCOH SLURRY       | 165.           | 0.0           | 113.4           | 2.6           |
| LC SLURRY         | 195923.        | 46.9          | 1195.8          | 27.7          |
| SCHIO SLURRY      | 91764.         | 22.0          | 1097.2          | 25.4          |
| PO/CITY SLURRY    | 48005.         | 11.5          | 263.8           | 6.1           |
| OTHER SLURRY      | 9549.          | 2.3           | 564.8           | 13.1          |
| GAS OIL FR T-84   | 0.             | 0.0           | 255.6           | 5.9           |
| RECYCLE H2        | 72126.         | 17.3          | 824.4           | 19.1          |
| PREM COK GAS OIL  | 0.             | 0.0           | 0.9             | 0.0           |
| TOTAL             | 412532.        | 100.0         | 4315.8          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| NO. 8 SEP GAS     | 68555.         | 16.4          | 738.5           | 17.1          |
| NO. 8 STRIP OVHD  | 12622.         | 3.0           | 127.6           | 3.0           |
| NO. 8 DES. SLURRY | 332169.        | 79.6          | 3237.7          | 75.0          |
| NO. 8 DES. GAS OI | 0.             | 0.0           | 243.8           | 5.6           |
| HYDROGEN SULFIDE  | 883.           | 0.2           | 12.1            | 0.3           |
| LOSS              | 3303.          | 0.8           | -43.9           | -1.0          |

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|       |         |       |        |       |
|-------|---------|-------|--------|-------|
| TOTAL | 412532. | 100.0 | 4315.8 | 100.0 |
|-------|---------|-------|--------|-------|

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\*\*\*\* UNIT 90 - NO. 7 HDS HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 328.17 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM              | DECEMBER       |               | YEAR TO DATE   |               | DECEMBER        |               | YEAR TO DATE    |               |
|---------------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|                     | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| **** CHARGES ****   |                |               |                |               |                 |               |                 |               |
| SEAL OIL FLUSH      | 34382.         | 2.2           | 10888.         | 2.2           | 311.2           | 1.2           | 98.9            | 1.9           |
| H2 FM H2 SYSTEM FOE | 124218.        | 7.9           | 20063.         | 4.1           | 1568.8          | 9.5           | 237.6           | 4.7           |
| #6 HDS STP REFLX    | 15844.         | 1.0           | 4805.          | 1.0           | 220.4           | 1.3           | 66.8            | 1.3           |
| LVGO                | 225474.        | 14.4          | 71400.         | 14.5          | 2877.4          | 17.5          | 913.8           | 17.9          |
| HVGO                | 634958.        | 40.6          | 209699.        | 42.7          | 5627.9          | 34.2          | 1854.8          | 36.4          |
| REG HCGO            | 278282.        | 17.8          | 93736.         | 19.1          | 1255.0          | 7.6           | 426.6           | 8.4           |
| #3 CTU GAS OIL      | 73288.         | 4.7           | 23508.         | 4.8           | 873.0           | 5.3           | 276.4           | 5.4           |
| CHG FM STORAGE      | 176745.        | 11.3          | 56978.         | 11.6          | 3731.0          | 22.7          | 1227.4          | 24.1          |
| TOTAL               | 1563196.       | 100.0         | 491078.        | 100.0         | 16464.7         | 100.0         | 5102.2          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

|                      |          |       |         |       |         |       |        |       |
|----------------------|----------|-------|---------|-------|---------|-------|--------|-------|
| SEP GAS TO HPU FOE   | 102734.  | 6.6   | 16233.  | 3.3   | 1416.0  | 8.6   | 211.9  | 4.2   |
| SEP LIQUID           | 46246.   | 3.0   | 13805.  | 2.8   | 75.2    | 0.5   | 22.4   | 0.4   |
| STRIP OVHD GAS       | 57112.   | 3.7   | 18328.  | 3.7   | 643.9   | 3.9   | 205.4  | 4.0   |
| DES GAS OIL          | 1367372. | 86.2  | 433931. | 88.4  | 14096.8 | 85.6  | 4519.5 | 88.6  |
| HYDROGEN SULPHID FOE | 6514.    | 0.4   | 5766.   | 1.2   | 63.9    | 0.4   | 56.5   | 1.1   |
| OVHD LIQUID          | 0.       | 0.0   | 0.      | 0.0   | 7.4     | 0.0   | 2.3    | 0.0   |
| OVHD GAS ELB         | 0.       | 0.0   | 0.      | 0.0   | 1.8     | 0.0   | 0.6    | 0.0   |
| LOSS                 | 3218.    | 0.2   | 3014.   | 0.6   | 159.7   | 1.0   | 83.6   | 1.6   |
| TOTAL                | 1563196. | 100.0 | 491078. | 100.0 | 16464.7 | 100.0 | 5102.2 | 100.0 |

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## ME05 - MONTH END AND YEAR TO DATE FINAL UNIT YIELD REPORT

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\*\*\* UNIT 89 - HYDROGEN SYSTEM HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 350.47 DAYS TO DATE THIS YEAR \*\*\*

| STREAM               | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|----------------------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                      | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
| **** CHARGES ****    | BBLS     | PCT   | MLBS   | PCT   | MBBLS        | PCT   | MMLBS  | PCT   |
| TOTAL VISTA IMPO FOE | 43652.   | 11.2  | 7202.  | 12.3  | 439.9        | 9.3   | 76.2   | 10.4  |
| TOTAL JUP IMPORT FOE | 54382.   | 14.0  | 5856.  | 10.0  | 536.5        | 11.3  | 57.7   | 7.9   |
| HDS SEP H2 FOE       | 223109.  | 57.4  | 33179. | 56.7  | 2814.5       | 59.3  | 408.8  | 56.0  |
| NO. 3 CRU HYDROG FOE | 34499.   | 8.9   | 6769.  | 11.6  | 537.3        | 11.3  | 105.6  | 14.5  |
| H2 FRM #1 & #2 H FOE | 32751.   | 8.4   | 5530.  | 9.4   | 421.8        | 8.9   | 81.9   | 11.2  |
| TOTAL                | 388393.  | 100.0 | 58537. | 100.0 | 4749.9       | 100.0 | 730.2  | 100.0 |
| **** YIELDS ****     |          |       |        |       |              |       |        |       |
| RECYCLE H2 FOE       | 256954.  | 66.2  | 41487. | 70.9  | 3051.6       | 64.2  | 462.3  | 63.3  |
| LP H2 TO EFS HDS FOE | 226.     | 0.1   | 35.    | 0.1   | 92.8         | 2.0   | 14.4   | 2.0   |
| HP H2 TO #4 HDS FOE  | 11036.   | 2.8   | 1521.  | 2.6   | 119.3        | 2.5   | 16.2   | 2.2   |
| HP H2 TO #2&#1 H FOE | 11259.   | 2.9   | 1351.  | 2.3   | 204.1        | 4.3   | 28.4   | 3.9   |
| REC PURGE TO FUE FOE | 270.     | 0.1   | 38.    | 0.1   | 2.0          | 0.0   | 0.3    | 0.0   |
| H2 TO CITIES FOE     | 34721.   | 8.9   | 5323.  | 9.1   | 333.6        | 7.0   | 49.6   | 6.8   |
| H2 TO VISTA FOE      | 7796.    | 2.0   | 881.   | 1.5   | 37.6         | 0.8   | 4.4    | 0.6   |
| JUPITER H2-FUEL FOE  | 2620.    | 0.7   | 282.   | 0.5   | 25.8         | 0.5   | 2.8    | 0.4   |
| VISTA H2-FUEL FOE    | 9658.    | 2.5   | 1592.  | 2.7   | 116.8        | 2.5   | 20.1   | 2.8   |
| PSA TG TO FUEL FOE   | 36690.   | 9.4   | 8542.  | 14.6  | 436.4        | 9.2   | 106.4  | 14.6  |
| LOSS                 | 17161.   | 4.4   | -2516. | -4.3  | 329.9        | 6.9   | 25.2   | 3.5   |
| TOTAL                | 388393.  | 100.0 | 58537. | 100.0 | 4749.9       | 100.0 | 730.2  | 100.0 |

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ME05 - MONTH END AND YEAR TO DATE FINAL 11 YIELD REPORT

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\*\*\*\* UNIT 85 - FCC FEED PREP HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 326.37 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM         | DECEMBER       |               | YEAR TO DATE    |               |
|----------------|----------------|---------------|-----------------|---------------|
|                | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| DESUL. GAS OIL | 1347372.       | 100.0         | 13966.3         | 100.0         |
| TOTAL          | 1347372.       | 100.0         | 13966.3         | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM      | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
|-------------|----------------|---------------|-----------------|---------------|
| DIESEL      | 147789.        | 11.0          | 1206.2          | 8.6           |
| DES GAS OIL | 1152372.       | 85.5          | 12281.8         | 87.9          |
| SLOP        | 1674.          | 0.1           | 41.1            | 0.3           |
| LOSS        | 45537.         | 3.4           | 437.3           | 3.1           |
| TOTAL       | 1347372.       | 100.0         | 13966.3         | 100.0         |

\*\*\*\* UNIT 86 - CDR UNIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 195.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM        | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
|---------------|----------------|---------------|-----------------|---------------|
| CDR RAFFINATE | 730782.        | 91.7          | 3758.5          | 91.1          |
| DECENE        | 63270.         | 7.9           | 332.1           | 8.1           |
| DODECENE      | 1052.          | 0.1           | 3.2             | 0.1           |
| DIEAC         | 701.           | 0.1           | 5.1             | 0.1           |
| ETHER         | 91.            | 0.0           | 0.5             | 0.0           |
| TITANIUM CL3  | 1035.          | 0.1           | 4.9             | 0.1           |
| HEXANOL       | 0.             | 0.0           | 0.9             | 0.0           |
| VAN LUBE SL   | 160.           | 0.0           | 0.8             | 0.0           |
| TOTAL         | 797091.        | 100.0         | 4106.1          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM                | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
|-----------------------|----------------|---------------|-----------------|---------------|
| DRAG REDUCR 102M GALS | 772916.        | 97.0          | 3907.4          | 95.2          |
| DRAG REDUCER T/R GALS | 0.             | 0.0           | 138.6           | 3.4           |
| DRAG REDUCER 203 GALS | 21289.         | 2.7           | 42.4            | 1.0           |
| LOSS                  | 2886.          | 0.4           | 17.6            | 0.4           |
| TOTAL                 | 797091.        | 100.0         | 4106.1          | 100.0         |

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\*\*\*\* UNIT 02 - NO. 2 CRUDE UNIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 353.87 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM              | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|---------------------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                     | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
| **** CHARGES ****   | BBLS     | PCT   | MLBS   | PCT   | MBBLS        | PCT   | MMLBS  | PCT   |
| CONOCO PIPELINE     | 579422   | 32.4  | 163475 | 31.8  | 5327.4       | 26.4  | 1510.9 | 25.9  |
| TEXACO PIPELINE     | 326719   | 18.2  | 90454  | 17.6  | 5143.2       | 25.5  | 1456.7 | 24.9  |
| DOMESTIC BARGE      | 856054   | 47.8  | 242689 | 47.2  | 9315.4       | 46.2  | 2648.6 | 45.4  |
| CONDENSATE          | 0.       | 0.0   | 0.     | 0.0   | 0.0          | 0.0   | 0.0    | 0.0   |
| SLOP                | 28253    | 1.6   | 17706  | 3.4   | 395.4        | 2.0   | 224.1  | 3.8   |
| TOTAL               | 1790448  | 100.0 | 514324 | 100.0 | 20181.5      | 100.0 | 5840.3 | 100.0 |
| **** YIELDS ****    |          |       |        |       |              |       |        |       |
| CRUDE/DEBUT GAS ELB | 62996    | 3.5   | 13026  | 2.5   | 692.4        | 3.4   | 143.4  | 2.5   |
| LSR GASOLINE        | 172601   | 9.6   | 43355  | 8.4   | 1548.7       | 7.7   | 390.5  | 6.7   |
| NAPHTHA             | 243462   | 13.6  | 65195  | 12.7  | 2437.9       | 12.1  | 653.6  | 11.2  |
| KEROSENE            | 237990   | 13.3  | 66889  | 13.0  | 2936.9       | 14.6  | 828.2  | 14.2  |
| HEAVY HOD           | 50826    | 2.8   | 14553  | 2.8   | 651.8        | 3.2   | 187.6  | 3.2   |
| DIESEL              | 408714   | 22.8  | 120177 | 23.4  | 4847.3       | 24.0  | 1428.3 | 24.5  |
| GAS OIL             | 195220   | 10.9  | 59764  | 11.6  | 2016.6       | 10.0  | 616.1  | 10.5  |
| TOPPED CRUDE        | 357160   | 19.9  | 114054 | 22.2  | 4461.8       | 22.1  | 1427.0 | 24.4  |
| SLOP                | 0.       | 0.0   | 0.     | 0.0   | 20.3         | 0.1   | 5.6    | 0.1   |
| LOSS                | 61479    | 3.4   | 17311  | 3.4   | 567.6        | 2.8   | 159.9  | 2.7   |
| TOTAL               | 1790448  | 100.0 | 514324 | 100.0 | 20181.5      | 100.0 | 5840.3 | 100.0 |

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\*\*\*\* UNIT 35 - FCC UNIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 316.93 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM             | DECEMBER |        | YEAR TO DATE |        |
|--------------------|----------|--------|--------------|--------|
|                    | VOLUME   | WEIGHT | VOLUME       | WEIGHT |
| **** CHARGES ****  | BBLs     | PCT    | MBBLs        | PCT    |
| CHARGE FROM STGE   | 362704   | 25.9   | 115714       | 26.0   |
| H. CYCLE OIL       | 0.       | 0.0    | 0.0          | 0.0    |
| LT SLOP FM STGE    | 11334.   | 0.8    | 3154.        | 0.7    |
| #2 CTU GAS OIL     | 195220.  | 13.9   | 59764.       | 13.4   |
| DES GAS OIL        | 823195.  | 58.8   | 265058.      | 59.5   |
| MISC. LT. ENDS ELB | 6447.    | 0.5    | 1330.        | 0.3    |
| PBC LIQUIDS        | 886.     | 0.1    | 176.         | 0.0    |
| TOTAL              | 1399786. | 100.0  | 445196.      | 100.0  |

## \*\*\*\* YIELDS \*\*\*\*

|                  |      |          |       |         |       |         |       |        |       |
|------------------|------|----------|-------|---------|-------|---------|-------|--------|-------|
| H2S              | FOE  | 425.     | 0.0   | 376.    | 0.1   | 4.0     | 0.0   | 3.5    | 0.1   |
| ABS TAIL GAS     | FOE  | 53568.   | 3.8   | 17727.  | 4.0   | 654.4   | 4.7   | 210.7  | 4.7   |
| P3 TO CAT POLY   |      | 0.       | 0.0   | 0.      | 0.0   | 5.9     | 0.0   | 1.1    | 0.0   |
| PROPANE-PROPLENE |      | 102557.  | 7.3   | 18575.  | 4.2   | 784.4   | 5.6   | 142.3  | 3.2   |
| BUTANE-BUTYLENE  |      | 188208.  | 13.4  | 38299.  | 8.6   | 1673.6  | 11.9  | 341.1  | 7.7   |
| FCC GASOLINE     |      | 710890.  | 50.8  | 185401. | 41.6  | 7073.5  | 50.3  | 1857.7 | 41.8  |
| MAIN FRAC NAPHTH |      | 20274.   | 1.4   | 5999.   | 1.3   | 226.8   | 1.6   | 66.6   | 1.5   |
| LT CYCLE OIL     |      | 317552.  | 22.7  | 102615. | 23.0  | 3466.9  | 24.6  | 1121.7 | 25.2  |
| H-CYCLE OIL RECY |      | 0.       | 0.0   | 0.      | 0.0   | 0.0     | 0.0   | 0.0    | 0.0   |
| LC SLURRY        |      | 131614.  | 9.4   | 47393.  | 10.6  | 1149.3  | 8.2   | 413.2  | 9.3   |
| SLOP             |      | 0.       | 0.0   | 0.      | 0.0   | 11.0    | 0.1   | 2.9    | 0.1   |
| COKE BURNED      | TONS | 9252.    | 0.7   | 18504.  | 4.2   | 94.2    | 0.7   | 188.5  | 4.2   |
| LOSS             |      | -134554. | -9.6  | 10306.  | 2.3   | -1074.1 | -7.6  | 97.9   | 2.2   |
| TOTAL            |      | 1399786. | 100.0 | 445196. | 100.0 | 14070.1 | 100.0 | 4447.3 | 100.0 |

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\*\*\*\* UNIT 83 - CRYO GAS PLANT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 340.97 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER       |       | WEIGHT |       | YEAR TO DATE    |       | WEIGHT |       |
|-----------------------------|----------------|-------|--------|-------|-----------------|-------|--------|-------|
|                             | VOLUME<br>BBLs | PCT   | MLBS   | PCT   | VOLUME<br>MBBLs | PCT   | MMLBS  | PCT   |
| CRYO FEED GAS               | 240522         | 100.0 | 68278  | 100.0 | 2518.4          | 100.0 | 712.2  | 100.0 |
| TOTAL                       | 240522         | 100.0 | 68278  | 100.0 | 2518.4          | 100.0 | 712.2  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                      |         |       |        |       |        |       |       |       |
|----------------------|---------|-------|--------|-------|--------|-------|-------|-------|
| CRYO GAS TO FUEL FOE | 211944. | 88.1  | 59581. | 87.3  | 2114.9 | 84.0  | 588.1 | 82.6  |
| CRYO GAS TO FLAR FOE | 423.    | 0.2   | 118.   | 0.2   | 1.5    | 0.1   | 0.4   | 0.1   |
| CRYO P/B             | 61695   | 25.7  | 12100. | 17.7  | 668.6  | 26.5  | 131.5 | 18.5  |
| LOSS                 | -33540. | -13.9 | -3520. | -5.2  | -266.6 | -10.6 | -7.9  | -1.1  |
| TOTAL                | 240522  | 100.0 | 68278  | 100.0 | 2518.4 | 100.0 | 712.2 | 100.0 |

\*\*\*\* UNIT 41 - CAT POLY UNIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 341.61 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER       |       | WEIGHT |       | YEAR TO DATE    |       | WEIGHT |       |
|-----------------------------|----------------|-------|--------|-------|-----------------|-------|--------|-------|
|                             | VOLUME<br>BBLs | PCT   | MLBS   | PCT   | VOLUME<br>MBBLs | PCT   | MMLBS  | PCT   |
| PROP-PROPYLENE              | 91838.         | 71.3  | 16479. | 69.4  | 1057.9          | 74.2  | 189.8  | 72.4  |
| BUTANE-BUTYLENE             | 0.             | 0.0   | 0.     | 0.0   | 4.8             | 0.3   | 1.0    | 0.4   |
| CRYO P/B                    | 37013.         | 28.7  | 7256.  | 30.6  | 362.9           | 25.5  | 71.2   | 27.2  |
| TOTAL                       | 128851.        | 100.0 | 23735. | 100.0 | 1425.7          | 100.0 | 262.0  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|           |         |       |        |       |        |       |       |       |
|-----------|---------|-------|--------|-------|--------|-------|-------|-------|
| PROPANE   | 60203.  | 46.7  | 10624. | 44.8  | 727.1  | 51.0  | 128.1 | 48.9  |
| BUTANE    | 26339.  | 20.4  | 4928.  | 20.8  | 259.3  | 18.2  | 47.8  | 18.3  |
| POLY GASO | 36601.  | 28.4  | 9199.  | 38.8  | 382.7  | 26.8  | 96.7  | 36.9  |
| SLOP      | 0.      | 0.0   | 0.     | 0.0   | 1.6    | 0.1   | 0.4   | 0.2   |
| LOSS      | 5708.   | 4.4   | -1017. | -4.3  | 55.0   | 3.9   | -11.0 | -4.2  |
| TOTAL     | 128851. | 100.0 | 23735. | 100.0 | 1425.7 | 100.0 | 262.0 | 100.0 |

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\*\*\*\* UNIT 68 - NP SPLITTER HAS BEEN ON STREAM 28.3 DAYS IN DECEMBER AND 343.78 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| NORMAL PARAFFINS  | 87124          | 100.0         | 1160.7          | 100.0         |
| TOTAL             | 87124.         | 100.0         | 1160.7          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

|               |        |       |        |       |        |       |       |       |
|---------------|--------|-------|--------|-------|--------|-------|-------|-------|
| LT PARAFFINS  | 61159. | 70.2  | 16087. | 70.0  | 774.3  | 66.7  | 203.7 | 66.5  |
| HVY PARAFFINS | 30403. | 34.9  | 8114.  | 35.3  | 393.3  | 33.9  | 105.0 | 34.3  |
| LOSS          | -4438. | -5.1  | -1223. | -5.3  | -7.0   | -0.6  | -2.5  | -0.8  |
| TOTAL         | 87124. | 100.0 | 22977. | 100.0 | 1160.7 | 100.0 | 306.1 | 100.0 |

\*\*\*\* UNIT 50 - LIGHT GASO SPLIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 351.76 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| GRP. GASOLINE     | 398273.        | 47.3          | 3822.0          | 49.3          |
| #2/#3 CTU LSR     | 367491.        | 43.6          | 3357.4          | 43.3          |
| CH GASOLINE       | 76798.         | 9.1           | 578.1           | 7.5           |
| TOTAL             | 842562.        | 100.0         | 7757.6          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

|                      |         |       |         |       |        |       |        |       |
|----------------------|---------|-------|---------|-------|--------|-------|--------|-------|
| PRI TUR GAS FUEL FDE | 0.      | 0.0   | 0.      | 0.0   | 4.2    | 0.1   | 1.2    | 0.1   |
| LSR GASOLINE         | 66097.  | 7.8   | 15199.  | 7.2   | 859.6  | 11.1  | 200.7  | 10.3  |
| LIGHT CRACKED GA     | 167744. | 19.9  | 38886.  | 18.4  | 1680.8 | 21.7  | 390.5  | 20.0  |
| NAPHTHA              | 362778. | 43.1  | 90374.  | 42.7  | 2990.8 | 38.6  | 755.8  | 38.6  |
| CRACKED NAPHTHA      | 228325. | 27.1  | 60939.  | 28.8  | 2141.3 | 27.6  | 577.9  | 29.5  |
| SLOP                 | 0.      | 0.0   | 0.      | 0.0   | 10.8   | 0.1   | 2.8    | 0.1   |
| LOSS                 | 17618.  | 2.1   | 6385.   | 3.0   | 70.1   | 0.9   | 27.5   | 1.4   |
| TOTAL                | 842562. | 100.0 | 211783. | 100.0 | 7757.6 | 100.0 | 1956.3 | 100.0 |

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\*\*\*\* UNIT 62 - NO. 2 CRU & HDS HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 310.22 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER |        |        |        | YEAR TO DATE |        |        |        |
|-------------------|----------|--------|--------|--------|--------------|--------|--------|--------|
|                   | VOLUME   | WEIGHT | VOLUME | WEIGHT | VOLUME       | WEIGHT | VOLUME | WEIGHT |
| **** CHARGES **** | BBLs     | PCT    | MLBS   | PCT    | MBBLS        | PCT    | MMLBS  | PCT    |
| NAPHTHA           | 380134   | 85.7   | 98969  | 86.6   | 4400.3       | 86.0   | 1155.6 | 87.4   |
| MOLEX GASOLINE    | 52227    | 11.8   | 14003  | 12.2   | 512.8        | 10.0   | 137.5  | 10.4   |
| HPU HYDROGEN FOE  | 11259    | 2.5    | 1351   | 1.2    | 204.1        | 4.0    | 28.4   | 2.2    |
| TOTAL             | 443620   | 100.0  | 114323 | 100.0  | 5117.2       | 100.0  | 1321.5 | 100.0  |

\*\*\*\* YIELDS \*\*\*\*

|                      |        |       |        |       |        |       |        |       |
|----------------------|--------|-------|--------|-------|--------|-------|--------|-------|
| SP H2 #1 #4 HPU FOE  | 43566  | 9.8   | 7502   | 6.6   | 474.2  | 9.3   | 92.6   | 7.0   |
| DESUL. NAPHTHA       | 0      | 0.0   | 0      | 0.0   | 79.1   | 1.5   | 21.2   | 1.6   |
| EXPT H2 LAKESHOR FOE | 187    | 0.0   | 41     | 0.0   | 48.3   | 0.9   | 10.8   | 0.8   |
| STAB GAS ELB         | 4954   | 1.1   | 1053   | 0.9   | 86.2   | 1.7   | 17.8   | 1.3   |
| STAB GAS TO FUEL FOE | 0      | 0.0   | 0      | 0.0   | 0.4    | 0.0   | 0.1    | 0.0   |
| STAB LIQ             | 37734  | 8.5   | 7155   | 6.3   | 736.9  | 14.4  | 140.3  | 10.6  |
| REFORMATE            | 333913 | 75.3  | 90332  | 79.0  | 3597.5 | 70.3  | 983.3  | 74.4  |
| LOSS                 | 23266  | 5.2   | 8240   | 7.2   | 94.6   | 1.8   | 55.4   | 4.2   |
| TOTAL                | 443620 | 100.0 | 114323 | 100.0 | 5117.2 | 100.0 | 1321.5 | 100.0 |

DECEMBER ENDING VALUES

REFORMATE RONC 88.37

\*\*\*\* UNIT 63 - REFORMATE SPLITT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 274.60 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER |        |        |        | YEAR TO DATE |        |        |        |
|-------------------|----------|--------|--------|--------|--------------|--------|--------|--------|
|                   | VOLUME   | WEIGHT | VOLUME | WEIGHT | VOLUME       | WEIGHT | VOLUME | WEIGHT |
| **** CHARGES **** | BBLs     | PCT    | MLBS   | PCT    | MBBLS        | PCT    | MMLBS  | PCT    |
| COMBINED REFORMA  | 601432   | 100.0  | 164897 | 100.0  | 5562.2       | 100.0  | 1544.4 | 100.0  |
| TOTAL             | 601432   | 100.0  | 164897 | 100.0  | 5562.2       | 100.0  | 1544.4 | 100.0  |

\*\*\*\* YIELDS \*\*\*\*

|                  |        |       |        |       |        |       |        |       |
|------------------|--------|-------|--------|-------|--------|-------|--------|-------|
| LIGHT REFORMATE  | 97014  | 16.1  | 22532  | 13.7  | 865.3  | 15.6  | 202.2  | 13.1  |
| HEAVY REFORMATE  | 407857 | 67.8  | 118001 | 71.6  | 3759.2 | 67.6  | 1101.4 | 71.3  |
| BENZENE HEARTCUT | 111550 | 18.5  | 34334  | 20.8  | 949.8  | 17.1  | 272.0  | 17.6  |
| FLARE GAS FOE    | 206    | 0.0   | 40     | 0.0   | 2.0    | 0.0   | 0.4    | 0.0   |
| LOSS             | -15195 | -2.5  | -10011 | -6.1  | -14.1  | -0.3  | -31.6  | -2.0  |
| TOTAL            | 601432 | 100.0 | 164897 | 100.0 | 5562.2 | 100.0 | 1544.4 | 100.0 |

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\*\*\*\* UNIT 15 - THERMAL CRACKER HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 317.92 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               |                |               | YEAR TO DATE    |               |                 |               |
|-------------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                |               |                 |               |                 |               |
| GAS OIL FM SIG    | 340641         | 98.6          | 122687         | 98.8          | 3292.1          | 96.1          | 1186.9          | 96.5          |
| FCC CYCLE OIL FM  | 4703.          | 1.4           | 1493.          | 1.2           | 132.8           | 3.9           | 42.7            | 3.5           |
| TOTAL             | 345344.        | 100.0         | 124180.        | 100.0         | 3424.9          | 100.0         | 1229.6          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

|                      |         |       |         |       |        |       |        |       |
|----------------------|---------|-------|---------|-------|--------|-------|--------|-------|
| FRACT GAS-GRP ELB    | 29271.  | 8.5   | 7017.   | 5.7   | 328.9  | 9.6   | 78.7   | 6.4   |
| VENT GAS ID FLAR FDE | 836.    | 0.2   | 231.    | 0.2   | 7.3    | 0.2   | 2.1    | 0.2   |
| THERMAL GASOLINE     | 43814.  | 12.7  | 11045.  | 8.9   | 486.8  | 14.2  | 124.3  | 10.1  |
| CYCLE OIL            | 9389.   | 2.7   | 2739.   | 2.2   | 56.0   | 1.6   | 16.4   | 1.3   |
| THERMAL TAR          | 259559. | 75.2  | 99156.  | 79.8  | 2592.0 | 75.7  | 987.9  | 80.3  |
| SLOP                 | 0.      | 0.0   | 0.      | 0.0   | 0.1    | 0.0   | 0.0    | 0.0   |
| LOSS                 | 2475.   | 0.7   | 3992.   | 3.2   | -46.1  | -1.3  | 20.1   | 1.6   |
| TOTAL                | 345344. | 100.0 | 124180. | 100.0 | 3424.9 | 100.0 | 1229.6 | 100.0 |

\*\*\*\* UNIT 42 - CASINGHEAD UNIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 348.26 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               |                |               | YEAR TO DATE    |               |                 |               |
|-------------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                |               |                 |               |                 |               |
| FIELD PBC         | 47568.         | 14.0          | 8936.          | 13.8          | 486.3           | 12.8          | 79.7            | 10.5          |
| REF PBC LIQ       | 131806.        | 38.8          | 28449.         | 43.8          | 1360.2          | 35.9          | 281.2           | 37.1          |
| MISC LT ENDS ELB  | 0.             | 0.0           | 0.             | 0.0           | 475.2           | 12.5          | 67.2            | 8.9           |
| POLY & ALKY C4    | 101822.        | 30.0          | 17276.         | 26.6          | 791.7           | 20.9          | 209.9           | 27.7          |
| #3 REF PP         | 0.             | 0.0           | 0.             | 0.0           | 2.1             | 0.1           | 0.3             | 0.0           |
| CP/AK C3 FROM UN  | 58443.         | 17.2          | 10325.         | 15.9          | 678.0           | 17.9          | 119.5           | 15.8          |
| TOTAL             | 339639.        | 100.0         | 64986.         | 100.0         | 3793.5          | 100.0         | 757.9           | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

|                     |         |       |        |       |        |       |       |       |
|---------------------|---------|-------|--------|-------|--------|-------|-------|-------|
| PBC VAPORS ELB      | 0.      | 0.0   | 0.     | 0.0   | 1.2    | 0.0   | 0.3   | 0.0   |
| DEETH TAIL GAS FDE  | 9221.   | 2.7   | 2660.  | 4.1   | 147.1  | 3.9   | 42.8  | 5.6   |
| GAS TO FLARE FDE    | 0.      | 0.0   | 0.     | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| PROPANE             | 95954.  | 28.3  | 16983. | 26.1  | 921.8  | 24.3  | 163.3 | 21.5  |
| PROPANE ID FUEL FDE | 676.    | 0.2   | 199.   | 0.3   | 40.3   | 1.1   | 11.9  | 1.6   |
| BUTANE              | 120664. | 35.5  | 24624. | 37.9  | 1098.9 | 29.0  | 225.9 | 29.8  |
| ISOBUTANE           | 31413.  | 9.2   | 6118.  | 9.4   | 400.3  | 10.6  | 78.1  | 10.3  |
| CH GASOLINE         | 78820.  | 23.2  | 19067. | 29.3  | 989.8  | 26.1  | 239.0 | 31.5  |
| LOSS                | 2891.   | 0.9   | -4665. | -7.2  | 193.9  | 5.1   | -3.3  | -0.4  |
| TOTAL               | 339639. | 100.0 | 64986. | 100.0 | 3793.5 | 100.0 | 757.9 | 100.0 |

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\*\*\*\* UNIT 43 - ALKYLATION UNIT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 328.64 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| **** CHARGES **** |                |               |                 |               |
| B-B FM STORAGE    | 213220         | 58.0          | 43320           | 59.1          |
| IC4 FM STORAGE    | 150348         | 40.9          | 29292           | 39.9          |
| FCC P-P           | 4113           | 1.1           | 745             | 1.0           |
| PBC VAPORS ELB    | 0              | 0.0           | 0               | 0.0           |
| TOTAL             | 367681         | 100.0         | 73357           | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM               | DECEMBER       |               | YEAR TO DATE    |               |
|----------------------|----------------|---------------|-----------------|---------------|
|                      | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| PROPANE              | 10995          | 3.0           | 95.5            | 2.5           |
| BUTANE               | 60712          | 16.5          | 759.5           | 19.5          |
| ISOBUTANE            | 42623          | 11.6          | 411.5           | 10.6          |
| ALKYLATE             | 193218         | 52.6          | 2109.6          | 54.3          |
| WET BL DWN-FUEL FOE  | 632            | 0.2           | 32.7            | 0.8           |
| WET BL DWN-FLARE FOE | 0              | 0.0           | 0.2             | 0.0           |
| LOSS                 | 59501          | 16.2          | 478.4           | 12.3          |
| TOTAL                | 367681         | 100.0         | 73357           | 100.0         |

\*\*\*\* UNIT 23 - ACID PLANT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 329.91 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM              | DECEMBER       |               | YEAR TO DATE    |               |
|---------------------|----------------|---------------|-----------------|---------------|
|                     | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| **** CHARGES ****   |                |               |                 |               |
| AMINE ACID GAS FOE  | 0              | 0.0           | 2.9             | 4.2           |
| SWS GAS FOE         | 1311           | 26.8          | 13.0            | 18.8          |
| SPENT ACID 100%     | 2493           | 51.0          | 41.5            | 60.0          |
| CALC. O2 & H2O TONS | 1087           | 22.2          | 11.8            | 17.0          |
| TOTAL               | 4891           | 100.0         | 69.2            | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

| STREAM            | DECEMBER       |               | YEAR TO DATE    |               |
|-------------------|----------------|---------------|-----------------|---------------|
|                   | VOLUME<br>BBLs | WEIGHT<br>PCT | VOLUME<br>MBBLs | WEIGHT<br>PCT |
| 98% SUL ACID 100% | 4898           | 100.1         | 60.5            | 87.5          |
| LOSS              | -7             | -0.1          | 8.7             | 12.5          |
| TOTAL             | 4891           | 100.0         | 69.2            | 100.0         |

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\*\*\* UNIT 91 - SULFUR PLANT HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 343.38 DAYS TO DATE THIS YEAR \*\*\*

| STREAM          |     | DECEMBER       |               | YEAR TO DATE    |               |
|-----------------|-----|----------------|---------------|-----------------|---------------|
|                 |     | VOLUME<br>BBLS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT |
| *** CHARGES *** |     |                |               |                 |               |
| SMS ACID GAS    | FOE | 0              | 0.0           | 1.2             | 0.6           |
| AMINE ACID GAS  | FOE | 20388.         | 100.0         | 202.9           | 99.4          |
| TOTAL           |     | 20388.         | 100.0         | 204.1           | 100.0         |

\*\*\* YIELDS \*\*\*

|                 |      |        |       |        |       |       |       |       |       |
|-----------------|------|--------|-------|--------|-------|-------|-------|-------|-------|
| FUEL MAKE       | FOE  | 372.   | 1.8   | 77.    | 0.4   | 4.6   | 2.2   | 0.9   | 0.5   |
| SULFUR-TONS     | TONS | 8467.  | 41.5  | 16934. | 93.8  | 83.9  | 41.1  | 167.8 | 93.7  |
| CALC. PROC LOSS | TONS | 518.   | 2.5   | 1036.  | 5.7   | 5.2   | 2.5   | 10.3  | 5.8   |
| LOSS            |      | 11031. | 54.1  | 0.     | 0.0   | 110.5 | 54.1  | 0.0   | 0.0   |
| TOTAL           |      | 20388. | 100.0 | 18047. | 100.0 | 204.1 | 100.0 | 179.1 | 100.0 |

\*\*\* UNIT 22 - NASH PLANT HAS BEEN ON STREAM 30.0 DAYS IN DECEMBER AND 291.29 DAYS TO DATE THIS YEAR \*\*\*

| STREAM          |     | DECEMBER      |               | YEAR TO DATE    |               |
|-----------------|-----|---------------|---------------|-----------------|---------------|
|                 |     | VOLUME<br>BLS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT |
| *** CHARGES *** |     |               |               |                 |               |
| AMINE ACID GAS  | FOE | 8026.         | 100.0         | 58.9            | 100.0         |
| TOTAL           |     | 8026.         | 100.0         | 58.9            | 100.0         |

\*\*\* YIELDS \*\*\*

|                 |      |       |       |       |       |      |       |      |       |
|-----------------|------|-------|-------|-------|-------|------|-------|------|-------|
| SULFUR AS H2S   | TONS | 2355. | 29.3  | 4709. | 92.8  | 22.4 | 38.1  | 44.9 | 92.7  |
| PROCESSING LOSS | TONS | 182.  | 2.3   | 364.  | 7.2   | 1.8  | 3.0   | 3.6  | 7.4   |
| LOSS            |      | 5489. | 68.4  | 0.    | 0.0   | 34.7 | 58.9  | 0.0  | -0.1  |
| TOTAL           |      | 8026. | 100.0 | 5073. | 100.0 | 58.9 | 100.0 | 48.4 | 100.0 |

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\*\*\*\* UNIT 05 - REG BLENDING HAS BEEN ON STREAM 0.0 DAYS IN DECEMBER AND 7.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-----------------------------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                             | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
|                             | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| BUTANE                      | 0.       | 0.0   | 0.     | 0.0   | 8.2          | 7.5   | 1.7    | 6.0   |
| LSR GASOLINE                | 0.       | 0.0   | 0.     | 0.0   | 2.7          | 2.5   | 0.6    | 2.2   |
| LIGHT CRACKED GA            | 0.       | 0.0   | 0.     | 0.0   | 22.5         | 20.7  | 5.3    | 18.9  |
| CASINGHEAD GASO             | 0.       | 0.0   | 0.     | 0.0   | 9.2          | 8.5   | 2.1    | 7.6   |
| POLY GASOLINE               | 0.       | 0.0   | 0.     | 0.0   | 0.8          | 0.7   | 0.2    | 0.7   |
| FCC GASOLINE                | 0.       | 0.0   | 0.     | 0.0   | 12.7         | 11.7  | 3.3    | 11.9  |
| NO. 2 REFORMATE             | 0.       | 0.0   | 0.     | 0.0   | 14.4         | 13.3  | 4.0    | 14.4  |
| NO. 3 REFORMATE             | 0.       | 0.0   | 0.     | 0.0   | 29.9         | 27.5  | 8.3    | 29.8  |
| LIGHT REFORMATE             | 0.       | 0.0   | 0.     | 0.0   | 2.3          | 2.1   | 0.5    | 1.9   |
| HEAVY REFORMATE             | 0.       | 0.0   | 0.     | 0.0   | 6.0          | 5.5   | 1.9    | 6.6   |
| TOTAL                       | 0.       | 100.0 | 0.     | 100.0 | 108.7        | 100.0 | 28.0   | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                  |    |       |    |       |       |       |      |       |
|------------------|----|-------|----|-------|-------|-------|------|-------|
| REGULAR GASOLINE | 0. | 0.0   | 0. | 0.0   | 108.7 | 100.0 | 28.0 | 100.0 |
| LOSS             | 0. | 0.0   | 0. | 0.0   | 0.0   | 0.0   | 0.0  | 0.0   |
| TOTAL            | 0. | 100.0 | 0. | 100.0 | 108.7 | 100.0 | 28.0 | 100.0 |

\*\*\*\* UNIT 06 - UNLEADED BLEND HAS BEEN ON STREAM 29.0 DAYS IN DECEMBER AND 303.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM<br>**** CHARGES **** | DECEMBER |       |         |       | YEAR TO DATE |       |        |       |
|-----------------------------|----------|-------|---------|-------|--------------|-------|--------|-------|
|                             | VOLUME   |       | WEIGHT  |       | VOLUME       |       | WEIGHT |       |
|                             | BBLs     | PCT   | MLBS    | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| BUTANE                      | 173781.  | 10.7  | 35412.  | 8.6   | 1029.0       | 6.9   | 211.1  | 5.5   |
| ALKYLATE                    | 56465.   | 3.5   | 13799.  | 3.3   | 1093.4       | 7.3   | 268.3  | 7.0   |
| LSR GASOLINE                | 64491.   | 4.0   | 14638.  | 3.6   | 407.1        | 2.7   | 92.7   | 2.4   |
| LIGHT CRACKED GA            | 158039.  | 9.7   | 36935.  | 9.0   | 1515.9       | 10.2  | 354.5  | 9.3   |
| DEBUT SR GASO               | 3391.    | 0.2   | 802.    | 0.2   | 3.6          | 0.0   | 0.8    | 0.0   |
| CASINGHEAD GASO             | 1983.    | 0.1   | 457.    | 0.1   | 331.5        | 2.2   | 76.5   | 2.0   |
| POLY GASOLINE               | 34985.   | 2.1   | 8775.   | 2.1   | 357.6        | 2.4   | 90.4   | 2.4   |
| FCC GASOLINE                | 725526.  | 44.5  | 189116. | 45.9  | 6656.0       | 44.7  | 1747.0 | 45.8  |
| MZF NAPHTHA                 | 20437.   | 1.3   | 5821.   | 1.4   | 210.3        | 1.4   | 60.1   | 1.6   |
| NO. 2 REFORMATE             | 2188.    | 0.1   | 576.    | 0.1   | 623.1        | 4.2   | 168.9  | 4.4   |
| NO. 3 REFORMATE             | 45800.   | 2.8   | 11873.  | 2.9   | 412.0        | 2.8   | 112.2  | 2.9   |
| LIGHT REFORMATE             | 65699.   | 4.0   | 13944.  | 3.4   | 417.9        | 2.8   | 90.3   | 2.4   |
| HEAVY REFORMATE             | 276817.  | 17.0  | 79853.  | 19.4  | 1843.2       | 12.4  | 537.9  | 14.1  |
| TOTAL                       | 1629602. | 100.0 | 412000. | 100.0 | 14900.8      | 100.0 | 3810.8 | 100.0 |

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\*\*\*\* UNIT 06 - UNLEADED BLEND HAS BEEN ON STREAM 29.0 DAYS IN DECEMBER AND 303.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM   | DECEMBER       |               | DECEMBER       |               | YEAR TO DATE    |               | YEAR TO DATE    |               |
|----------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|          | VOLUME<br>BBLS | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| UNLEADED | 1629602.       | 100.0         | 411999.        | 100.0         | 14900.8         | 100.0         | 3812.9          | 100.1         |
| LOSS     | 0.             | 0.0           | 1.             | 0.0           | 0.0             | 0.0           | -2.1            | -0.1          |
| TOTAL    | 1629602.       | 100.0         | 412000.        | 100.0         | 14900.8         | 100.0         | 3810.8          | 100.0         |

\*\*\*\* UNIT 07 - SUPER UNL BLEND HAS BEEN ON STREAM 9.0 DAYS IN DECEMBER AND 155.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM           | DECEMBER       |               | DECEMBER       |               | YEAR TO DATE    |               | YEAR TO DATE    |               |
|------------------|----------------|---------------|----------------|---------------|-----------------|---------------|-----------------|---------------|
|                  | VOLUME<br>BBLS | WEIGHT<br>PCT | VOLUME<br>MLBS | WEIGHT<br>PCT | VOLUME<br>MBBLS | WEIGHT<br>PCT | VOLUME<br>MMLBS | WEIGHT<br>PCT |
| BUTANE           | 19112.         | 10.1          | 3887.          | 8.2           | 255.9           | 6.6           | 52.6            | 5.2           |
| ALKYLATE         | 72951.         | 38.7          | 17804.         | 37.6          | 904.1           | 23.4          | 221.8           | 21.8          |
| MTBE             | 18789.         | 10.0          | 4882.          | 10.3          | 112.8           | 2.9           | 29.3            | 2.9           |
| LSR GASOLINE     | 0.             | 0.0           | 0.             | 0.0           | 40.6            | 1.1           | 9.3             | 0.9           |
| LIGHT CRACKED GA | 0.             | 0.0           | 0.             | 0.0           | 124.6           | 3.2           | 29.2            | 2.9           |
| DEBUT SR GASO    | 0.             | 0.0           | 0.             | 0.0           | 0.2             | 0.0           | 0.0             | 0.0           |
| CASINGHEAD GASO  | 0.             | 0.0           | 0.             | 0.0           | 36.4            | 0.9           | 8.4             | 0.8           |
| POLY GASOLINE    | 360.           | 0.2           | 90.            | 0.2           | 14.5            | 0.4           | 3.7             | 0.4           |
| FCC GASOLINE     | 8277.          | 4.4           | 2155.          | 4.6           | 236.6           | 6.1           | 62.0            | 6.1           |
| M/F NAPHTHA      | 216.           | 0.1           | 61.            | 0.1           | 8.2             | 0.2           | 2.3             | 0.2           |
| NO. 2 REFORMATE  | 0.             | 0.0           | 0.             | 0.0           | 90.0            | 2.3           | 25.1            | 2.5           |
| NO. 3 REFORMATE  | 2798.          | 1.5           | 723.           | 1.5           | 457.8           | 11.9          | 127.7           | 12.6          |
| LIGHT REFORMATE  | 11731.         | 6.2           | 2442.          | 5.2           | 301.8           | 7.8           | 66.3            | 6.5           |
| HEAVY REFORMATE  | 54092.         | 28.7          | 15297.         | 32.3          | 1275.3          | 33.1          | 378.3           | 37.2          |
| TOTAL            | 188326.        | 100.0         | 47341.         | 100.0         | 3858.7          | 100.0         | 1016.0          | 100.0         |

\*\*\*\* YIELDS \*\*\*\*

|                |         |       |        |       |        |       |        |       |
|----------------|---------|-------|--------|-------|--------|-------|--------|-------|
| SUPER UNLEADED | 188326. | 100.0 | 47341. | 100.0 | 3858.7 | 100.0 | 1016.0 | 100.0 |
| LOSS           | 0.      | 0.0   | 0.     | 0.0   | 0.0    | 0.0   | 0.0    | 0.0   |
| TOTAL          | 188326. | 100.0 | 47341. | 100.0 | 3858.7 | 100.0 | 1016.0 | 100.0 |

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\*\*\*\* UNIT 08 - MID GRAD BLEND HAS BEEN ON STREAM 12.0 DAYS IN DECEMBER AND 70.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
| **** CHARGES **** | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| BUTANE            | 23349.   | 9.9   | 4806.  | 8.2   | 115.9        | 6.8   | 23.9   | 5.4   |
| ALKYLATE          | 55673.   | 23.7  | 13607. | 23.1  | 151.5        | 8.9   | 37.0   | 8.3   |
| MTBE              | 8329.    | 3.5   | 2164.  | 3.7   | 25.1         | 1.5   | 6.5    | 1.5   |
| LSR GASOLINE      | 9211.    | 3.9   | 2090.  | 3.5   | 47.9         | 2.8   | 10.9   | 2.4   |
| LIGHT CRACKED GA  | 23585.   | 10.0  | 5509.  | 9.3   | 141.6        | 8.3   | 33.1   | 7.4   |
| DEBUT SR GASO     | 816.     | 0.3   | 193.   | 0.3   | 1.0          | 0.1   | 0.2    | 0.1   |
| CASINGHEAD GASO   | 260.     | 0.1   | 60.    | 0.1   | 27.6         | 1.6   | 6.4    | 1.4   |
| POLY GASOLINE     | 729.     | 0.3   | 182.   | 0.3   | 19.2         | 1.1   | 4.8    | 1.1   |
| FCC GASOLINE      | 12908.   | 5.5   | 3358.  | 5.7   | 294.2        | 17.2  | 77.1   | 17.3  |
| M/F NAPHTHA       | 356.     | 0.2   | 101.   | 0.2   | 10.7         | 0.6   | 3.1    | 0.7   |
| NO. 2 REFORMATE   | 0.       | 0.0   | 0.     | 0.0   | 15.3         | 0.9   | 4.1    | 0.9   |
| NO. 3 REFORMATE   | 7242.    | 3.1   | 1871.  | 3.2   | 58.4         | 3.4   | 15.7   | 3.5   |
| LIGHT REFORMATE   | 18155.   | 7.7   | 3811.  | 6.5   | 141.7        | 8.3   | 30.5   | 6.8   |
| HEAVY REFORMATE   | 74276.   | 31.6  | 21187. | 35.9  | 659.9        | 38.6  | 192.3  | 43.2  |
| TOTAL             | 234889.  | 100.0 | 58938. | 100.0 | 1710.0       | 100.0 | 445.6  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                |         |       |        |       |        |       |       |       |
|----------------|---------|-------|--------|-------|--------|-------|-------|-------|
| MID GRADE UNLD | 234889. | 100.0 | 58938. | 100.0 | 1710.0 | 100.0 | 445.6 | 100.0 |
| LOSS           | 0.      | 0.0   | 0.     | 0.0   | 0.0    | 0.0   | 0.0   | 0.0   |
| TOTAL          | 234889. | 100.0 | 58938. | 100.0 | 1710.0 | 100.0 | 445.6 | 100.0 |

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\*\*\*\* UNIT 97 - AREA 1 FUEL HP HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 365.00 DAYS TO DATE THIS YEAR \*\*\*\*

|                          |     | DECEMBER |       |         |       | YEAR TO DATE |       |        |       |
|--------------------------|-----|----------|-------|---------|-------|--------------|-------|--------|-------|
|                          |     | VOLUME   |       | WEIGHT  |       | VOLUME       |       | WEIGHT |       |
| **** STREAM CHARGES **** |     | BBLs     | PCT   | MLBS    | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| CRYO GAS TO FUEL         | FOE | 211944.  | 43.5  | 59581.  | 43.7  | 2114.9       | 40.4  | 588.1  | 40.2  |
| FCC TAIL GAS             | FOE | 53568.   | 11.0  | 17727.  | 13.0  | 654.4        | 12.5  | 210.7  | 14.4  |
| GRP TAIL GAS             | FOE | 184898.  | 38.0  | 50505.  | 37.0  | 1910.6       | 36.5  | 524.8  | 35.9  |
| PROPANE                  | FOE | 676.     | 0.1   | 199.    | 0.1   | 40.3         | 0.8   | 11.9   | 0.8   |
| VISTA H2 TO FUEL         | FOE | 9658.    | 2.0   | 1592.   | 1.2   | 116.8        | 2.2   | 20.1   | 1.4   |
| JUPITER HYDROGEN         | FOE | 2620.    | 0.5   | 282.    | 0.2   | 25.8         | 0.5   | 2.8    | 0.2   |
| H2 RICH FUEL             | FOE | 270.     | 0.1   | 38.     | 0.0   | 2.0          | 0.0   | 0.3    | 0.0   |
| MISC FUEL GASES          | FOE | 10692.   | 2.2   | 3040.   | 2.2   | 195.9        | 3.7   | 56.4   | 3.9   |
| PURCHASED FUEL           | FOE | 12672.   | 2.6   | 3505.   | 2.6   | 176.2        | 3.4   | 46.7   | 3.2   |
| TOTAL                    |     | 486998.  | 100.0 | 136469. | 100.0 | 5236.9       | 100.0 | 1461.9 | 100.0 |

## \*\*\*\* YIELDS \*\*\*\*

|                  |     |         |       |         |       |        |       |        |       |
|------------------|-----|---------|-------|---------|-------|--------|-------|--------|-------|
| CRYO FEED GAS    |     | 240522. | 49.4  | 68278.  | 50.0  | 2518.4 | 48.1  | 712.2  | 48.7  |
| CRYO GAS LKSHOR  | FOE | 58557.  | 12.0  | 16472.  | 12.1  | 307.1  | 5.9   | 85.5   | 5.8   |
| EXP FUEL TO VIST | FOE | 8726.   | 1.8   | 2451.   | 1.8   | 379.1  | 7.2   | 105.0  | 7.2   |
| FUEL CONSUMED    | FOE | 94589.  | 19.4  | 26031.  | 19.1  | 1126.7 | 21.5  | 311.6  | 21.3  |
| AREA II MAKE-UP  | FOE | 74528.  | 15.3  | 20487.  | 15.0  | 770.0  | 14.7  | 212.8  | 14.6  |
| FLARE            | FOE | 111.    | 0.0   | 31.     | 0.0   | 16.9   | 0.3   | 4.6    | 0.3   |
| LOSS             |     | 9965.   | 2.0   | 2720.   | 2.0   | 118.7  | 2.3   | 30.1   | 2.1   |
| TOTAL            |     | 486998. | 100.0 | 136469. | 100.0 | 5236.9 | 100.0 | 1461.9 | 100.0 |

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ME05 - MONTH END AND YEAR TO DATE FINAL UNIT YIELD REPORT

\*\*\*\* UNIT 98 - AREA 2 FUEL HP HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 365.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |     | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|-----|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   |     | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
|                   |     | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| **** CHARGES **** |     |          |       |        |       |              |       |        |       |
| PURCHASED FUEL    | FOE | 48194.   | 39.3  | 13331. | 39.4  | 397.8        | 34.1  | 109.9  | 34.1  |
| D-37 MIX          | FOE | 74528.   | 60.7  | 20487. | 60.6  | 770.0        | 65.9  | 212.8  | 65.9  |
| TOTAL             |     | 122722.  | 100.0 | 33818. | 100.0 | 1167.8       | 100.0 | 322.7  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|                 |     |         |       |        |       |        |       |       |       |
|-----------------|-----|---------|-------|--------|-------|--------|-------|-------|-------|
| FUEL CONSUMED   | FOE | 87016.  | 70.9  | 23966. | 70.9  | 889.2  | 76.1  | 245.5 | 76.1  |
| LP DRUM MAKE-UP | FOE | 21325.  | 17.4  | 5867.  | 17.3  | 179.3  | 15.4  | 49.5  | 15.3  |
| LOSS            |     | 14381.  | 11.7  | 3985.  | 11.8  | 99.3   | 8.5   | 27.8  | 8.6   |
| TOTAL           |     | 122722. | 100.0 | 33818. | 100.0 | 1167.8 | 100.0 | 322.7 | 100.0 |

\*\*\*\* UNIT 99 - AREA 3 FUEL LP HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 365.00 DAYS TO DATE THIS YEAR \*\*\*\*

| STREAM            |     | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|-----|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   |     | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
|                   |     | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| **** CHARGES **** |     |          |       |        |       |              |       |        |       |
| PSA TAIL GAS      | FOE | 36690.   | 63.2  | 8542.  | 59.3  | 436.4        | 70.9  | 106.4  | 68.3  |
| HP FUEL MAKE-UP   | FOE | 21325.   | 36.8  | 5867.  | 40.7  | 179.3        | 29.1  | 49.5   | 31.7  |
| TOTAL             |     | 58015.   | 100.0 | 14409. | 100.0 | 615.7        | 100.0 | 155.9  | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|               |     |        |       |        |       |       |       |       |       |
|---------------|-----|--------|-------|--------|-------|-------|-------|-------|-------|
| FUEL CONSUMED | FOE | 58693. | 101.2 | 15016. | 104.2 | 651.6 | 105.8 | 166.4 | 106.7 |
| LOSS          |     | -678.  | -1.2  | -607.  | -4.2  | -35.8 | -5.8  | -10.5 | -6.7  |
| TOTAL         |     | 58015. | 100.0 | 14409. | 100.0 | 615.7 | 100.0 | 155.9 | 100.0 |

## ME05 - MONTH END AND YEAR TO DATE FINAL UNIT YIELD REPORT

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\*\*\*\* UNIT 95 - FLARE SYSTEM HAS BEEN ON STREAM 31.0 DAYS IN DECEMBER AND 365.00 DAYS TO DATE THIS YEAR \*\*\*\*

|                   |     | DECEMBER |       |        |       | YEAR TO DATE |       |        |       |
|-------------------|-----|----------|-------|--------|-------|--------------|-------|--------|-------|
|                   |     | VOLUME   |       | WEIGHT |       | VOLUME       |       | WEIGHT |       |
| STREAM            |     | BBLs     | PCT   | MLBS   | PCT   | MBBLs        | PCT   | MMLBS  | PCT   |
| **** CHARGES **** |     |          |       |        |       |              |       |        |       |
| PROCESS FLARE     | FOE | 1576     | 100.0 | 420    | 100.0 | 28.0         | 100.0 | 7.7    | 100.0 |
| TOTAL             |     | 1576     | 100.0 | 420    | 100.0 | 28.0         | 100.0 | 7.7    | 100.0 |

\*\*\*\* YIELDS \*\*\*\*

|               |     |        |         |       |         |        |        |       |         |
|---------------|-----|--------|---------|-------|---------|--------|--------|-------|---------|
| PROCESS FLARE | FOE | 21846  | 1386.2  | 6996  | 1667.1  | 274.6  | 980.0  | 87.9  | 1148.8  |
| LOSS          |     | -20270 | -1286.2 | -6576 | -1567.1 | -246.6 | -880.0 | -80.3 | -1048.8 |
| TOTAL         |     | 1576   | 100.0   | 420   | 100.0   | 28.0   | 100.0  | 7.7   | 100.0   |

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CONOCO INC.-LAKE CHARLES REFINERY  
ME07 - FUEL PERFORMANCE REPORT

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| AREA/UNIT                   | DECEMBER                   |                         |            |            |                | YEAR-TO-DATE                |                          |             |             |                | YEAR-TO-DATE AVERAGE       |                           |         |
|-----------------------------|----------------------------|-------------------------|------------|------------|----------------|-----------------------------|--------------------------|-------------|-------------|----------------|----------------------------|---------------------------|---------|
|                             | PROCESS<br>THRUPUT<br>BBLs | ACTUAL<br>FOE<br>CONS'D | PAR<br>FOE | VAR<br>FOE | % OF<br>TARGET | PROCESS<br>THRUPUT<br>MBBLs | ACTUAL<br>MFOE<br>CONS'D | PAR<br>MFOE | VAR<br>MFOE | % OF<br>TARGET | PROCESS<br>THRUPUT<br>BPCD | ACTUAL<br>FOECD<br>CONS'D | FOE/BBL |
| **** EFS /NO.3 CRU ****     |                            |                         |            |            |                |                             |                          |             |             |                |                            |                           |         |
| 03 NO. 3 CTU & VAC          | 3786293                    | 39784                   | 50420      | 10636      | 78.9           | 38536.8                     | 412.4                    | 517.7       | 105.4       | 79.7           | 105580                     | 1130                      | 0.0107  |
| 10 NO. 4 HDS                | 286426                     | 6753                    | 1207       | -5546      | 559.5          | 3709.3                      | 74.0                     | 15.6        | -58.4       | 475.1          | 10162                      | 203                       | 0.0199  |
| 14 NO. 5 HDS                | 0                          | 3123                    | 84         | -3039      | 3717.9         | 0.0                         | 34.4                     | 1.0         | -33.6       | 3415.4         | 0                          | 94                        | 0.0000  |
| 25 LVT UNIT                 | 74295                      | 1426                    | 7429       | 6003       | 19.2           | 582.0                       | 6.8                      | 58.2        | 51.4        | 11.6           | 2435                       | 28                        | 0.0116  |
| 82 NO. 3 CRU & HDS          | 409406                     | 29113                   | 25314      | -3799      | 115.0          | 4554.5                      | 341.8                    | 282.3       | -59.5       | 121.1          | 12478                      | 936                       | 0.0750  |
| AREA TOTAL                  | 4556420                    | 80199                   | 84454      | 4255       | 95.0           | 47382.7                     | 869.3                    | 874.8       | 5.4         | 99.4           | 130656                     | 2392                      | 0.0133  |
| **** FCC /NO.2 CRU ****     |                            |                         |            |            |                |                             |                          |             |             |                |                            |                           |         |
| 02 NO. 2 CRUDE UNIT         | 1762194                    | 18081                   | 16159      | -1922      | 111.9          | 19786.0                     | 225.1                    | 181.7       | -43.4       | 123.9          | 54208                      | 617                       | 0.0114  |
| 35 FCC UNIT                 | 1381117                    | 10367                   | 5534       | -4833      | 187.3          | 13694.2                     | 75.7                     | 54.9        | -20.8       | 137.9          | 37518                      | 207                       | 0.0055  |
| 41 CAT POLY UNIT            | 36601                      | 0                       | 3660       | 3660       | 0.0            | 382.7                       | 0.0                      | 38.3        | 38.3        | 0.0            | 1049                       | 0                         | 0.0000  |
| 50 REFORM FEED PREP         | 396069                     | 0                       | 0          | 0          | 0.0            | 3822.1                      | 0.0                      | 0.0         | 0.0         | 0.0            | 10472                      | 0                         | 0.0000  |
| 62 NO. 2 CRU & HDS          | 432361                     | 16714                   | 13261      | -3453      | 126.0          | 4913.1                      | 203.4                    | 150.9       | -52.5       | 134.8          | 13461                      | 557                       | 0.0414  |
| AREA TOTAL                  | 4008342                    | 45162                   | 38614      | -6548      | 117.0          | 42598.1                     | 504.2                    | 425.7       | -78.5       | 118.4          | 116707                     | 1381                      | 0.0118  |
| **** COMBINATION AREA ****  |                            |                         |            |            |                |                             |                          |             |             |                |                            |                           |         |
| 15 THERMAL CRACKER          | 345344                     | 8419                    | 13271      | 4852       | 63.4           | 3424.9                      | 92.6                     | 131.8       | 39.2        | 70.2           | 9383                       | 254                       | 0.0270  |
| 23 ACID PLANT               | 4398                       | 44                      | 490        | 446        | 9.0            | 60.5                        | 4.3                      | 6.0         | 1.8         | 70.8           | 166                        | 12                        | 0.0708  |
| 42 CASINGHEAD UNIT          | 281195                     | 0                       | 0          | 0          | 0.0            | 3113.4                      | 0.0                      | 0.0         | 0.0         | 0.0            | 8530                       | 0                         | 0.0000  |
| 43 ALKYLATION UNIT          | 193218                     | 0                       | 0          | 0          | 0.0            | 2109.6                      | 0.0                      | 0.0         | 0.0         | 0.0            | 5780                       | 0                         | 0.0000  |
| 91 SULFUR PLANT             | 8467                       | 2156                    | 2853       | 697        | 75.6           | 83.9                        | 26.6                     | 28.3        | 1.6         | 94.2           | 230                        | 73                        | 0.3175  |
| AREA TOTAL                  | 833122                     | 10619                   | 16614      | 5995       | 63.9           | 8792.3                      | 123.5                    | 166.2       | 42.6        | 74.3           | 24089                      | 338                       | 0.0140  |
| **** SOUR CRUDE/COKING **** |                            |                         |            |            |                |                             |                          |             |             |                |                            |                           |         |
| 39 PREMIUM COKER            | 15395                      | 12084                   | 8196       | -3889      | 147.4          | 178.8                       | 127.8                    | 95.2        | -32.6       | 134.3          | 490                        | 350                       | 0.7148  |
| 56 NO. 1 CALCINER           | 0                          | 0                       | 0          | 0          | 0.0            | 25.4                        | 9.8                      | 9.1         | -0.7        | 107.6          | 69                         | 27                        | 0.3873  |
| 74 NO. 6 HDS                | 717448                     | 864                     | 2922       | 2058       | 29.6           | 6860.5                      | 10.2                     | 28.1        | 17.9        | 36.3           | 18796                      | 28                        | 0.0015  |
| 75 GAS REC. PLANT           | 782961                     | 0                       | 0          | 0          | 0.0            | 7848.1                      | 0.0                      | 0.0         | 0.0         | 0.0            | 21502                      | 0                         | 0.0000  |
| 79 NO. 2 COKER              | 99565                      | 29579                   | 49783      | 20204      | 59.4           | 918.3                       | 309.8                    | 459.1       | 149.4       | 67.5           | 2516                       | 849                       | 0.3373  |
| 84 NO. 8 HDS                | 345406                     | 1202                    | 1416       | 214        | 84.9           | 2734.0                      | 12.2                     | 10.9        | -1.3        | 112.1          | 7628                       | 33                        | 0.0044  |
| 85 FCC FEED PREP            | 1347372                    | 0                       | 0          | 0          | 0.0            | 13966.3                     | 0.0                      | 0.0         | 0.0         | 0.0            | 38264                      | 0                         | 0.0000  |
| 89 HYDROGEN SYSTEM          | 388392                     | 0                       | 0          | 0          | 0.0            | 4749.9                      | 0.0                      | 0.0         | 0.0         | 0.0            | 13013                      | 0                         | 0.0000  |
| 90 NO. 7 HDS                | 1388746                    | 3185                    | 2823       | -362       | 112.8          | 14364.3                     | 26.1                     | 29.3        | 3.2         | 89.2           | 39354                      | 72                        | 0.0018  |
| 96 NO. 2 CALCINER           | 10900                      | 7123                    | 3924       | -3199      | 181.5          | 228.8                       | 151.5                    | 82.4        | -69.1       | 183.9          | 627                        | 415                       | 0.6620  |
| AREA TOTAL                  | 5096185                    | 54037                   | 69064      | 15027      | 78.2           | 51924.4                     | 647.4                    | 714.1       | 66.7        | 90.7           | 142259                     | 1774                      | 0.0125  |
| **** MISC THROUGHPUTS ****  |                            |                         |            |            |                |                             |                          |             |             |                |                            |                           |         |
| NP NORMAL PAR.OVHD          | 61159                      | 0                       | 0          | 0          | 0.0            | 774.3                       | 0.0                      | 0.0         | 0.0         | 0.0            | 2121                       | 0                         | 0.0000  |
| REFINERY TOTAL              | 14555228                   | 191017                  | 208746     | 18729      | 91.0           | 151471.7                    | 2144.5                   | 2180.7      | 36.2        | 98.3           | 415832                     | 5885                      | 0.0567  |

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| DECEMBER                    |          |                 |              |                  |               |                |              |                  |              |                   |                |                 |
|-----------------------------|----------|-----------------|--------------|------------------|---------------|----------------|--------------|------------------|--------------|-------------------|----------------|-----------------|
| YEAR-TO-DATE                |          |                 |              |                  |               |                |              |                  |              |                   |                |                 |
|                             | *** MSCF | FUEL GAS<br>FOE | *****<br>HHV | ** FUEL<br>BBL'S | OIL **<br>FOE | TOTAL<br>FOE'S | ***<br>MMSCF | FUEL GAS<br>MFOE | *****<br>HHV | ** FUEL<br>MBBL'S | OIL **<br>MFOE | TOTAL<br>MFOE'S |
| **** PURCHASES/INPUTS ****  |          |                 |              |                  |               |                |              |                  |              |                   |                |                 |
| C3 PROPANE TO FUEL          | 1705.    | 676.            | 2525.        | 0.               | 0.            | 676.           | 102.         | 40.              | 2524.        | 0.                | 0.             | 40.             |
| HJ JUPITER HYD              | 50856.   | 2620.           | 328.         | 0.               | 0.            | 2620.          | 499.         | 26.              | 329.         | 0.                | 0.             | 26.             |
| PG PURCHASED FUEL           | 392796.  | 60867.          | 987.         | 0.               | 0.            | 60867.         | 3695.        | 574.             | 989.         | 0.                | 0.             | 574.            |
| VH VISTA HYD                | 141215.  | 9658.           | 436.         | 0.               | 0.            | 9658.          | 1641.        | 117.             | 453.         | 0.                | 0.             | 117.            |
| TOTAL                       | 586572.  | 73821.          | 801.         | 0.               | 0.            | 73821.         | 5936.        | 757.             | 812.         | 0.                | 0.             | 757.            |
| **** EXPORTS/OUTPUTS ****   |          |                 |              |                  |               |                |              |                  |              |                   |                |                 |
| EF EXPORT FUEL GAS          | 48915.   | 8726.           | 1136.        | 0.               | 0.            | 8726.          | 2258.        | 379.             | 1069.        | 0.                | 0.             | 379.            |
| 4N EXPT FUEL LASHRE         | 341865.  | 58744.          | 1094.        | 0.               | 0.            | 58744.         | 2266.        | 355.             | 999.         | 0.                | 0.             | 355.            |
| FL FUEL DRUM FLARE          | 764.     | 111.            | 925.         | 0.               | 0.            | 111.           | 109.         | 17.              | 989.         | 0.                | 0.             | 17.             |
| TOTAL                       | 391544.  | 67581.          | 1099.        | 0.               | 0.            | 67581.         | 4633.        | 751.             | 1033.        | 0.                | 0.             | 751.            |
| **** PRODUCED FUEL GAS **** |          |                 |              |                  |               |                |              |                  |              |                   |                |                 |
| 03 NO. 3 CTU & VAC          | 0.       | 0.              | 0.           | 0.               | 0.            | 0.             | 2.           | 1.               | 3263.        | 0.                | 0.             | 1.              |
| 35 FCC UNIT                 | 292707.  | 53568.          | 1165.        | 0.               | 0.            | 53568.         | 3677.        | 654.             | 1133.        | 0.                | 0.             | 654.            |
| 39 PREMIUM COKER            | 1636.    | 261.            | 1016.        | 0.               | 0.            | 261.           | 13.          | 2.               | 1129.        | 0.                | 0.             | 2.              |
| 42 CASINGHEAD UNIT          | 33616.   | 9221.           | 1747.        | 0.               | 0.            | 9221.          | 445.         | 147.             | 2107.        | 0.                | 0.             | 147.            |
| 43 ALKYLATION UNIT          | 1221.    | 632.            | 3296.        | 0.               | 0.            | 632.           | 63.          | 33.              | 3294.        | 0.                | 0.             | 33.             |
| 50 REFORM FEED PREP         | 0.       | 0.              | 0.           | 0.               | 0.            | 0.             | 18.          | 4.               | 1446.        | 0.                | 0.             | 4.              |
| 62 NO. 2 CRU & HDS          | 1763.    | 187.            | 675.         | 0.               | 0.            | 187.           | 445.         | 49.              | 696.         | 0.                | 0.             | 49.             |
| 75 GAS REC PLANT            | 1042351. | 184898.         | 1130.        | 0.               | 0.            | 184898.        | 10419.       | 1911.            | 1168.        | 0.                | 0.             | 1911.           |
| 82 NO. 3 CRU & HDS          | 1692.    | 207.            | 779.         | 0.               | 0.            | 207.           | 18.          | 4.               | 1352.        | 0.                | 0.             | 4.              |
| 83 CRYO GAS PLANT           | 1235102. | 211945.         | 1093.        | 0.               | 0.            | 211945.        | 12635.       | 2115.            | 1066.        | 0.                | 0.             | 2115.           |
| 89 HYDROGEN SYSTEM          | 312936.  | 36960.          | 752.         | 0.               | 0.            | 36960.         | 3306.        | 438.             | 845.         | 0.                | 0.             | 438.            |
| 91 SULFUR PLANT             | 3018.    | 372.            | 620.         | 0.               | 0.            | 372.           | 47.          | 5.               | 620.         | 0.                | 0.             | 5.              |
| 97 CRYO FEED GAS            | 1290076. | 240522.         | 1187.        | 0.               | 0.            | 240522.        | 13723.       | 2518.            | 1169.        | 0.                | 0.             | 2518.           |
| TOTAL                       | 1636766. | 257729.         | 1003.        | 0.               | 0.            | 257729.        | 17364.       | 2844.            | 1043.        | 0.                | 0.             | 2844.           |
| QIAL REFINERY FUEL          | 1831794. | 263969.         | 918.         | 0.               | 0.            | 263969.        | 18667.       | 2850.            | 972.         | 0.                | 0.             | 2850.           |
| **** CONSUMED FUEL GAS **** |          |                 |              |                  |               |                |              |                  |              |                   |                |                 |
| 2 NO. 2 CRUDE UNIT          | 122898.  | 18081.          | 937.         | 0.               | 0.            | 18081.         | 1411.        | 225.             | 1016.        | 0.                | 0.             | 225.            |
| 3 NO. 3 CTU & VAC           | 263125.  | 39784.          | 963.         | 0.               | 0.            | 39784.         | 2577.        | 412.             | 1019.        | 0.                | 0.             | 412.            |
| 0 NO. 4 HDS                 | 44644.   | 6753.           | 963.         | 0.               | 0.            | 6753.          | 457.         | 74.              | 1031.        | 0.                | 0.             | 74.             |
| 4 NO. 5 HDS                 | 20652.   | 3123.           | 963.         | 0.               | 0.            | 3123.          | 216.         | 34.              | 1016.        | 0.                | 0.             | 34.             |
| 5 THERMAL CRACKER           | 57167.   | 8419.           | 938.         | 0.               | 0.            | 8419.          | 576.         | 93.              | 1023.        | 0.                | 0.             | 93.             |
| 3 ACID PLANT                | 297.     | 44.             | 943.         | 0.               | 0.            | 44.            | 30.          | 4.               | 922.         | 0.                | 0.             | 4.              |
| 5 LVT UNIT                  | 9000.    | 1426.           | 1009.        | 0.               | 0.            | 1426.          | 51.          | 7.               | 840.         | 0.                | 0.             | 7.              |
| 5 FCC UNIT                  | 70693.   | 10367.          | 934.         | 0.               | 0.            | 10367.         | 483.         | 76.              | 998.         | 0.                | 0.             | 76.             |
| 7 POWER PLANT               | 307146.  | 46024.          | 954.         | 0.               | 0.            | 46024.         | 2959.        | 467.             | 1006.        | 0.                | 0.             | 467.            |
| 9 PREMIUM COKER             | 82320.   | 12084.          | 935.         | 0.               | 0.            | 12084.         | 800.         | 128.             | 1017.        | 0.                | 0.             | 128.            |
| 3 HOB DISTRIBUTION          | 28938.   | 4256.           | 937.         | 0.               | 0.            | 4256.          | 347.         | 56.              | 1019.        | 0.                | 0.             | 56.             |
| 6 NO. 1 CALCINER            | 0.       | 0.              | 0.           | 0.               | 0.            | 0.             | 62.          | 10.              | 1009.        | 0.                | 0.             | 10.             |
| 2 NO. 2 CRU & HDS           | 113687.  | 16714.          | 936.         | 0.               | 0.            | 16714.         | 1255.        | 203.             | 1032.        | 0.                | 0.             | 203.            |
| 4 NO. 6 HDS                 | 5705.    | 864.            | 964.         | 0.               | 0.            | 864.           | 63.          | 10.              | 1036.        | 0.                | 0.             | 10.             |
| 9 NO. 2 COKER               | 215767.  | 29580.          | 873.         | 0.               | 0.            | 29580.         | 2181.        | 310.             | 904.         | 0.                | 0.             | 310.            |

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CONOCO INC.-LAKE CHARLES REFINERY  
ME08 - MONTHLY FUEL BALANCE REPORT

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| DECEMBER                   |          |          |       |         |        |         | YEAR-TO-DATE |          |       |         |        |        |  |
|----------------------------|----------|----------|-------|---------|--------|---------|--------------|----------|-------|---------|--------|--------|--|
|                            | ***      | FUEL GAS | ****  | ** FUEL | OIL ** | TOTAL   | ***          | FUEL GAS | ****  | ** FUEL | OIL ** | TOTAL  |  |
|                            | MSCF     | FOE      | HHV   | BBLS    | FOE    | FOE'S   | MMSCF        | MFOE     | HHV   | MBBLS   | MFOE   | MFOE'S |  |
| 82 NO. 3 CRU & HDS         | 201890.  | 29113.   | 918.  | 0.      | 0.     | 29113.  | 2351.        | 342.     | 926.  | 0.      | 0.     | 342.   |  |
| 84 NO. 8 HDS               | 7952.    | 1202.    | 963.  | 0.      | 0.     | 1202.   | 77.          | 12.      | 1011. | 0.      | 0.     | 12.    |  |
| 90 NO. 7 HDS               | 21054.   | 3185.    | 963.  | 0.      | 0.     | 3185.   | 162.         | 26.      | 1024. | 0.      | 0.     | 26.    |  |
| 91 SULFUR PLANT            | 14648.   | 2156.    | 937.  | 0.      | 0.     | 2156.   | 170.         | 27.      | 999.  | 0.      | 0.     | 27.    |  |
| 96 NO. 2 CALCINER          | 42867.   | 7123.    | 1058. | 0.      | 0.     | 7123.   | 927.         | 151.     | 1040. | 0.      | 0.     | 151.   |  |
| TOTAL                      | 1630450. | 240298.  | 939.  | 0.      | 0.     | 240298. | 17155.       | 2667.    | 990.  | 0.      | 0.     | 2667.  |  |
| **** NET FUEL BALANCE **** |          |          |       |         |        |         |              |          |       |         |        |        |  |
| (PROD - CONS)              | 201344.  | 23671.   |       | 0.      | 0.     | 23671.  | 1513.        | 182.     |       | 0.      | 0.     | 182.   |  |

SAL 000004119

LAKE CHARLES REFINERY  
ANALYSIS OF TRANSFERS TO MARKETING

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| PRODUCT DESCRIPTION          | DECEMBER 90 |             |            |                | YEAR TO DATE----- |              |            |                 |
|------------------------------|-------------|-------------|------------|----------------|-------------------|--------------|------------|-----------------|
|                              | BARRELS     | GALLONS     | UNIT PRICE | AMOUNT         | BARRELS           | GALLONS      | UNIT PRICE | AMOUNT          |
| 7401 MARKETING TRANSFERS     |             |             |            |                |                   |              |            |                 |
| 0010 GASOLINE,REGULAR-SALES  | 0           | 0           | 65.97      | 0.00           | 126,915           | 5,330,413    | 61.87      | 1,298,047.63    |
| 0010 -DELTA                  | 0           | 0           | 65.97      | 0.00           | (50,969)          | (2,140,698)  | 60.45      | (1,294,144.13)  |
| 0010 TOTAL-PRODUCED          | 0           | 0           | 65.97      | 0.00           | 75,946            | 3,189,715    | 62.82      | 2,003,903.50    |
| 0015 UNLEADED-SALES          | 1,519,099   | 63,802,158  | 64.72      | 41,292,756.66  | 14,562,607        | 611,629,507  | 69.47      | 424,896,578.31  |
| 0015 -PURCHASE               | 0           | 0           | 64.72      | 0.00           | 0                 | 0            | 0.00       | 0.00            |
| 0015 -NET SALE               | 1,519,099   | 63,802,158  | 64.72      | 41,292,756.66  | 14,562,607        | 611,629,507  | 69.47      | 424,896,578.31  |
| 0015 -DELTA                  | 86,317      | 3,625,314   | 64.72      | 2,346,303.22   | 90,315            | 3,793,230    | 63.96      | 2,426,335.24    |
| 0015 TOTAL-PRODUCED          | 1,605,416   | 67,427,472  | 64.72      | 43,639,059.88  | 14,652,922        | 615,422,737  | 69.44      | 427,322,913.54  |
| 0016 MIDGRADE (UNL-PRM-SALES | 230,053     | 9,662,226   | 65.76      | 6,353,879.82   | 1,708,868         | 71,772,451   | 75.78      | 54,386,111.66   |
| 0016 -DELTA                  | 11,686      | 490,812     | 65.76      | 322,757.97     | 86,329            | 3,625,818    | 68.38      | 2,479,172.40    |
| 0016 TOTAL-PRODUCED          | 241,739     | 10,153,038  | 65.76      | 6,676,637.79   | 1,795,197         | 75,398,269   | 75.42      | 56,865,284.06   |
| 0017 SUPER UNLEADED-SALES    | 155,044     | 6,511,848   | 67.21      | 4,376,613.04   | 3,678,587         | 154,500,670  | 75.95      | 117,339,467.57  |
| 0017 -DELTA                  | 25,494      | 1,070,748   | 67.21      | 719,649.73     | 50,867            | 2,136,414    | 29.88      | 638,351.95      |
| 0017 TOTAL-PRODUCED          | 180,538     | 7,582,596   | 67.21      | 5,096,262.77   | 3,729,454         | 156,637,084  | 75.32      | 117,977,819.52  |
| 0025 GASOLINE COMPONENTS     | 174,700     | 7,337,400   | 64.72      | 4,748,765.28   | 115,283           | 4,841,883    | 57.49      | 2,783,421.21    |
| 0116 LT. SR GASOLINE-DELTA   | 0           | 0           | 0.00       | 0.00           | (40,467)          | (1,699,614)  | (0.00)     | 0.00            |
| 0116 TOTAL-PRODUCED          | 0           | 0           | 0.00       | 0.00           | (40,467)          | (1,699,614)  | (0.00)     | 0.00            |
| TOTAL MOTOR FUEL             | 2,202,393   | 92,500,506  | 65.04      | 60,160,725.72  | 20,328,335        | 853,790,074  | 71.09      | 606,953,341.84  |
| 0150 JET 50 FUEL-SALES       | 856,601     | 35,977,242  | 79.56      | 28,623,493.74  | 7,182,161         | 301,650,773  | 75.06      | 226,430,336.99  |
| 0150 -PURCHASE               | (75,022)    | (3,150,924) | 79.56      | (2,506,875.13) | (797,635)         | (33,500,670) | 68.93      | (23,092,119.36) |
| 0150 -NET SALE               | 781,579     | 32,826,318  | 79.56      | 26,116,618.61  | 6,384,526         | 268,150,103  | 75.83      | 203,338,217.63  |
| 0150 -DELTA                  | (35,332)    | (1,483,944) | 79.56      | (1,180,625.85) | 15,680            | 658,560      | 302.66     | 1,993,183.27    |
| 0150 TOTAL-PRODUCED          | 746,247     | 31,342,374  | 79.56      | 24,935,992.76  | 6,400,206         | 268,808,663  | 76.39      | 205,331,400.91  |
| 0162 CONOCO LVT OIL-SALES    | 0           | 0           | 79.56      | 0.00           | 13,802            | 579,697      | 62.45      | 362,013.45      |
| 0162 -DELTA                  | 0           | 0           | 79.56      | 0.00           | (545)             | (22,890)     | 75.03      | (17,174.37)     |
| 0162 TOTAL-PRODUCED          | 0           | 0           | 79.56      | 0.00           | 13,257            | 556,807      | 61.91      | 344,839.08      |
| 0165 LVT 200 OIL-SALES       | 20,327      | 853,734     | 126.90     | 1,083,388.45   | 153,875           | 6,462,756    | 88.28      | 5,705,567.70    |
| 0165 -DELTA                  | (19,028)    | (799,176)   | 126.90     | (1,014,154.34) | (4,609)           | (193,570)    | 308.97     | (598,103.36)    |
| 0165 TOTAL-PRODUCED          | 1,299       | 54,558      | 126.90     | 69,234.11      | 149,266           | 6,269,178    | 81.47      | 5,107,464.34    |
| 6040 CONOSOL C-140-SALES     | 7,708       | 323,736     | 81.90      | 265,139.78     | 127,314           | 5,347,206    | 63.20      | 3,379,246.71    |
| 6040 -DELTA                  | (6,950)     | (291,900)   | 81.90      | (239,066.10)   | 12,265            | 515,130      | 91.75      | 472,643.19      |
| 6040 TOTAL-PRODUCED          | 758         | 31,836      | 81.90      | 26,073.68      | 139,579           | 5,862,336    | 65.71      | 3,851,889.89    |

SAL 000004120

LAKE CHARLES REFINERY  
ANALYSIS OF TRANSFERS TO MARKETING

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| PRODUCT DESCRIPTION          | DECEMBER 90 |             |            |                | YEAR TO DATE----- |               |            |                  |
|------------------------------|-------------|-------------|------------|----------------|-------------------|---------------|------------|------------------|
|                              | BARRELS     | GALLONS     | UNIT PRICE | AMOUNT         | BARRELS           | GALLONS       | UNIT PRICE | AMOUNT           |
| TOTAL NO. 1 FUEL OIL         | 748,304     | 31,428,768  | 79.64      | 25,031,300.55  | 6,702,308         | 281,496,984   | 76.25      | 214,635,594.22   |
| 0060 DIESEL GRADE 2-SALES    | 0           | 0           | 75.02      | 0.00           | 0                 | 0             | 0.00       | 0.00             |
| 0060 -PURCHASE               | 0           | 0           | 75.02      | 0.00           | 0                 | 0             | 0.00       | 0.00             |
| 0060 -NET SALE               | 0           | 0           | 75.02      | 0.00           | 0                 | 0             | 0.00       | 0.00             |
| 0060 -DELTA                  | 255,581     | 10,734,402  | 75.02      | 8,052,948.38   | 254,260           | 10,678,920    | 52.00      | 5,552,945.75     |
| 0060 TOTAL-PRODUCED          | 255,581     | 10,734,402  | 75.02      | 8,052,948.38   | 254,260           | 10,678,920    | 52.00      | 5,552,945.75     |
| 0042 NO. 2 FUEL OIL-SALES    | 1,720,069   | 72,242,898  | 75.02      | 54,196,622.08  | 21,615,461        | 907,849,344   | 64.32      | 583,916,243.80   |
| 0042 -DELTA                  | 2,003       | 84,126      | 75.02      | 63,111.33      | (10,215)          | (429,030)     | 60.84      | (261,037.40)     |
| 0042 TOTAL-PRODUCED          | 1,722,072   | 72,327,024  | 75.02      | 54,259,733.41  | 21,605,246        | 907,420,314   | 64.32      | 583,655,206.40   |
| TOTAL NO. 2 FUEL OIL         | 1,977,653   | 83,061,426  | 75.02      | 62,312,681.79  | 21,659,506        | 918,099,234   | 64.18      | 589,208,152.15   |
| 0066 DISTILLATE COMPONENTS   | (20,038)    | (841,596)   | 75.02      | (631,365.32)   | (63,987)          | (2,687,454)   | 33.25      | (893,685.00)     |
| TOTAL DISTILLATE             | 2,705,919   | 113,648,598 | 76.30      | 86,712,617.02  | 28,497,827        | 1,196,908,764 | 67.09      | 802,950,061.37   |
| TOTAL TRANSFERS TO MARKETING | 4,908,312   | 206,149,104 | 71.25      | 146,873,342.74 | 48,826,162        | 2,050,698,838 | 68.75      | 1,409,903,403.21 |
| TOTAL PURCHASES FOR RESALE   | (75,022)    | (3,150,924) | 79.56      | (2,506,875.13) | (797,635)         | (33,500,670)  | 68.93      | (23,092,119.36)  |

SAL 000004121

LAKE CHARLES REFINERY  
ANALYSIS OF TRANSFERS TO MARKETING

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| PRODUCT DESCRIPTION             | DECEMBER 90 |           |            |              | YEAR TO DATE----- |             |            |               |
|---------------------------------|-------------|-----------|------------|--------------|-------------------|-------------|------------|---------------|
|                                 | BARRELS     | GALLONS   | UNIT PRICE | AMOUNT       | BARRELS           | GALLONS     | UNIT PRICE | AMOUNT        |
| 7402 REFINING TRANSFERS         |             |           |            |              |                   |             |            |               |
| 0058 CIT-CON FEEDSTOCK          | 98,402      | 4,132,884 | 67.82      | 2,802,921.93 | 1,302,479         | 54,704,118  | 58.60      | 32,054,347.76 |
| 0059 DISTILLATE FEEDSTOCK       | 0           | 0         | 0.00       | 0.00         | 99,762            | 4,190,012   | 62.65      | 2,625,042.52  |
| 0067 AROMATIC OIL 155           | 0           | 0         | 0.00       | 0.00         | 0                 | 0           | 0.00       | 0.00          |
| 0082 LT. CYCLE GAS OIL          | 811         | 34,062    | 76.12      | 25,927.99    | 9,044             | 379,862     | 58.27      | 221,361.01    |
| 0100 NORMAL PARAFFIN FEEDSTOC   | 237,990     | 9,995,580 | 88.53      | 8,849,086.97 | 2,652,695         | 111,413,190 | 72.90      | 81,225,577.47 |
| 0109 NAPHTHA                    | 0           | 0         | 0.00       | 0.00         | 348,126           | 14,621,296  | 64.85      | 9,481,658.50  |
| 0182 REFORMATE                  | 0           | 0         | 0.00       | 0.00         | 1,949             | 81,858      | 66.99      | 54,836.67     |
| 0193 BENZENE                    | 20,953      | 880,026   | 149.27     | 1,313,614.81 | 130,827           | 5,494,725   | 150.40     | 8,263,879.80  |
| 0194 BENZENE RAFFINATE          | 105,599     | 4,435,158 | 66.33      | 2,941,840.30 | 792,204           | 33,272,547  | 55.31      | 18,401,977.54 |
| 8537 CAT CRACKER FEEDSTOCK      | 144,229     | 6,057,618 | 60.24      | 3,649,109.08 | 3,108,632         | 130,562,541 | 56.85      | 74,221,580.06 |
| 8542 INTR COKER GAS OIL         | 0           | 0         | 0.00       | 0.00         | 70,798            | 2,973,496   | 38.47      | 1,144,007.23  |
| 8543 LSR COKER GAS OIL          | 7,801       | 327,642   | 55.51      | 181,874.07   | 64,863            | 2,724,266   | 44.16      | 1,202,996.02  |
| 8544 HEAVY PREMIUM COKE GAS O   | 95,432      | 4,008,144 | 50.47      | 2,022,910.28 | 922,085           | 38,727,565  | 46.79      | 18,119,560.34 |
| 8548 HYDROGEN TO CITGO          | 34,721      | 1,458,282 | 48.60      | (589,219.50) | 333,603           | 14,011,326  | 46.70      | 6,543,984.69  |
| 8549 MOLEX RAFFINATE TO CDR     | 16,930      | 711,060   | 87.70      | 623,599.62   | 88,964            | 3,736,478   | 80.69      | 3,015,144.36  |
| 8550 REFINERY P-P'S (PROPANE)   | 18,617      | 781,914   | 33.21      | 259,673.64   | 148,800           | 6,249,618   | 33.58      | 2,098,802.85  |
| 8551 REFINERY P-P'S (PROPYLEN   | 58,032      | 2,437,344 | 87.03      | 2,121,220.48 | 430,149           | 18,066,259  | 62.76      | 11,338,616.64 |
| 8552 PYROLYSIS TAR              | 0           | 0         | 0.00       | 0.00         | 20,225            | 849,442     | 52.94      | 449,694.59    |
| 8553 THERMAL TAR                | 60,258      | 2,530,836 | 51.35      | 1,299,584.29 | 208,983           | 8,777,293   | 58.37      | 5,123,436.61  |
| 8585 SLURRY OIL                 | 7,076       | 297,192   | 48.44      | 143,959.80   | 9,737             | 408,971     | 45.21      | 184,904.45    |
| 8590 VACUUM RESIDUAL            | 67,534      | 2,836,428 | 38.08      | 1,080,111.78 | 340,708           | 14,309,755  | 38.27      | 5,476,745.76  |
| 8910 X COKE*                    | 27,583      | 5,732     | 40,919.96  | 2,345,532.11 | 265,959           | 55,270      | 40,967.88  | 22,642,949.57 |
| 8911 LOW SULFUR RECARBORIZER*   | 20,464      | 4,253     | 34,794.75  | 1,479,820.72 | 91,837            | 19,085      | 34,426.55  | 6,570,307.71  |
| 8913 INTERMEDIATE SULF RECARB   | 14,015      | 2,913     | 22,683.73  | 660,777.05   | 14,017            | 2,913       | 22,683.73  | 660,777.05    |
| 8921 INTERMEDIATE PREMIUM*      | 0           | 0         | 0.00       | 0.00         | 63,360            | 13,167      | 27,857.13  | 3,667,948.71  |
| 8922 NORMAL PREMIUM GRAPHITE*   | 17,305      | 3,596     | 31,603.00  | 1,136,443.88 | 151,881           | 31,563      | 31,593.37  | 9,971,814.64  |
| 8930 NORMAL RECARBORIZED COKE   | 1,359       | 282       | 25,102.78  | 70,789.84    | 57,094            | 11,865      | 19,819.54  | 2,351,588.96  |
| 8931 1 1/2 SULFUR RECARBORIZER* | 0           | 0         | 0.00       | 0.00         | 9,725             | 2,021       | 13,674.80  | 275,559.24    |
| 8932 ANODE COKE LC*             | 14,741      | 3,063     | 13,975.51  | 428,069.87   | 229,037           | 47,597      | 18,898.27  | 8,995,010.12  |
| 8934 HIGH SULFUR RECARBORIZER   | 0           | 0         | 0.00       | 0.00         | 1,318             | 274         | 8,403.15   | 23,024.63     |
| 8936 PC RECARBURIZER COKE       | 20,719      | 4,306     | 6,499.57   | 279,871.48   | 34,425            | 7,152       | 10,279.92  | 735,220.17    |
| 8942 GREEN ANODE COKE           | 3,157       | 656       | 12,077.39  | 79,227.68    | 3,157             | 656         | 12,077.39  | 79,227.68     |

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LAKE CHARLES REFINERY  
ANALYSIS OF TRANSFERS TO MARKETING

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| PRODUCT DESCRIPTION           | DECEMBER 90 |            |            |               | YEAR TO DATE----- |             |            |                |
|-------------------------------|-------------|------------|------------|---------------|-------------------|-------------|------------|----------------|
|                               | BARRELS     | GALLONS    | UNIT PRICE | AMOUNT        | BARRELS           | GALLONS     | UNIT PRICE | AMOUNT         |
| 8950 GREEN HIGH SULFUR FUEL*  | 397,295     | 82,563     | 2,221.07   | 1,833,782.02  | 3,264,207         | 678,348     | 1,973.19   | 13,385,077.95  |
| 8951 COKE FINES*              | 2,539       | 528        | 6,589.86   | 34,794.46     | 43,019            | 8,940       | 5,580.41   | 588,288.37     |
| 8912 MEDIUM SULFUR RECARBORIZ | 0           | 0          | 0.00       | 0.00          | 20,528            | 4,266       | 30,755.19  | 1,312,016.49   |
| 8939 CALCINED PC ANODE        | 21,289      | 4,424      | 3,629.04   | 160,548.73    | 30,441            | 6,326       | 5,954.42   | 376,676.59     |
| 8969 CALCINED PC ANODE        | 0           | 0          | 0.00       | 0.00          | 0                 | 0           | 0.00       | 0.00           |
| 8937 T I COKE                 | 0           | 0          | 0.00       | 0.00          | 165,008           | 34,291      | 7,668.17   | 2,629,493.79   |
| 8997 SULFUR*                  | 24,587      | 8,262      | 7,076.03   | 584,621.60    | 248,583           | 83,529      | 7,057.65   | 5,895,182.44   |
| 8992 SULFUR AS H2S*           | 7,008       | 2,355      | 3,258.97   | 76,748.74     | 66,746            | 22,428      | 3,626.87   | 813,433.94     |
| 8998 SULFURIC ACID-98%        | 1,119       | 361        | 1,336.52   | (666.41)      | 8,052             | 2,595       | 1,125.42   | 29,204.52      |
| TOTAL MISCELLANEOUS TRANSFERS | 1,547,565   | 41,047,464 | 87.45      | 35,896,577.31 | 15,853,017        | 466,586,904 | 77.64      | 362,252,957.42 |
| 0116 LT. S. R. GASOLINE       | 0           | 0          | 0.00       | 0.00          | 566,343           | 23,786,392  | 41.21      | 9,801,756.14   |
| TOTAL LIGHT BLEND FEEDSTOCK   | 0           | 0          | 0.00       | 0.00          | 566,343           | 23,786,392  | 41.21      | 9,801,756.14   |
| TRANSFERS TO CHOCOLATE BAYOU  | 0           | 0          | 0.00       | 0.00          | 566,343           | 23,786,392  | 41.21      | 9,801,756.14   |
| TOTAL REFINING TRANSFERS      | 1,547,565   | 41,047,464 | 87.45      | 35,896,577.31 | 16,419,360        | 490,373,296 | 75.87      | 372,054,713.57 |

\*GALLONS COLUMN IS TONS & UNIT  
COLUMN IS CENTS PER TON.

\*\*GALLONS COLUMN IS POUNDS.

\* \* \* \* \* FOOTNOTES FOR DECEMBER 90

|                               |           |               |
|-------------------------------|-----------|---------------|
| 7402 TRANSFERS REFINING       | 1,462,693 | 33,089,595.07 |
| 7404 TRANSFERS TO SATELLITE   | 0         | 0.00          |
| 7402 INTRANSIT SALES, INC/DEC | 84,880    | 2,571,465.39  |
| MISC LOSS (OTHER)             | (8)       | 235,516.85    |
| TOTAL REFINING TRANSFERS      | 1,547,565 | 35,896,577.31 |

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LAKE CHARLES REFINERY  
ANALYSIS OF TRANSFERS TO MARKETING

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| PRODUCT DESCRIPTION            | DECEMBER 90 |             |            |                | YEAR TO DATE----- |               |            |                  |
|--------------------------------|-------------|-------------|------------|----------------|-------------------|---------------|------------|------------------|
|                                | BARRELS     | GALLONS     | UNIT PRICE | AMOUNT         | BARRELS           | GALLONS       | UNIT PRICE | AMOUNT           |
| 7403 REFINERY CONSUMPTION      |             |             |            |                |                   |               |            |                  |
| FUEL GAS CONSUMED              | 203,102     | 8,530,284   | 41.62      | 3,550,239.15   | 2,275,667         | 95,578,014    | 31.74      | 30,337,264.19    |
| FUEL OIL CONSUMED              | 0           | 0           | 0.00       | 0.00           | 0                 | 0             | 0.00       | 0.00             |
| 98% SULFURIC ACID*             | 96          | 31          | 3,889.60   | 1,204.52       | 1,024             | 330           | 3,886.32   | 12,823.59        |
| TOTAL REFINERY CONSUMPTION     | 203,198     | 8,530,315   | 41.63      | 3,551,443.67   | 2,276,691         | 95,578,344    | 31.75      | 30,350,087.78    |
| 7404 INTERREFINERY TRANSFERS   |             |             |            |                |                   |               |            |                  |
| CIT-CON ADJUSTMENT             | 0           | 0           | 0.00       | (2,447,497.01) | 0                 | 0             | 0.00       | 1,580,162.16     |
| L. CHARLES TO VENCO 8950       | 0           | 0           | 0.00       | 0.00           | 300,529           | 62,454        | 3,819.67   | 2,385,539.61     |
| BASE REFORMATE                 | 0           | 0           | 0.00       | 0.00           | 3,047             | 127,990       | 91.98      | 117,727.67       |
| TOTAL INTERREFINERY TRANSFERS  | 0           | 0           | 0.00       | (2,447,497.01) | 303,576           | 190,444       | 2,278.57   | 4,339,404.34     |
| 7405 TRANSFERS TO NGP          |             |             |            |                |                   |               |            |                  |
| 8242 FIELD BUTANE              | 0           | 0           | 0.00       | 0.00           | 280,894           | 11,797,548    | 30.85      | 3,639,887.03     |
| 8246 LPG PROPANE               | 83,713      | 3,515,946   | 42.85      | 1,506,582.86   | 938,171           | 39,403,182    | 35.89      | 14,141,576.25    |
| 8274 CRYO GAS TO NGP           | 58,744      | 2,467,248   | 35.10      | 2,351,283.14   | 355,433           | 14,928,186    | 25.46      | 3,801,118.22     |
| TOTAL TRANSFERS TO NGP         | 142,457     | 5,983,194   | 64.48      | 3,857,866.00   | 1,574,498         | 66,128,916    | 32.64      | 21,582,581.50    |
| 7406 EXCHANGE DELIVERIES       |             |             |            |                |                   |               |            |                  |
| VISTA REVENUE                  | 16,521      | 693,882     | 40.98      | 284,320.02     | 365,026           | 15,331,092    | 30.56      | 4,684,960.92     |
| BENZENE HEARTCUT               | 111,550     | 4,685,100   | 86.74      | 4,063,766.55   | 949,827           | 39,892,734    | 62.91      | 25,095,888.93    |
| TOTAL EXCHANGE DELIVERIES      | 128,071     | 5,378,982   | 80.83      | 4,348,086.57   | 1,314,853         | 55,223,826    | 53.93      | 29,780,849.85    |
| 7407 TRANSFERS TO OTHER DEPTS  |             |             |            |                |                   |               |            |                  |
| 0113 NAPHTHA CUTTER STOCK-COT  | 99,750      | 4,189,500   | 58.93      | 2,468,812.50   | 802,701           | 33,713,449    | 58.01      | 19,558,650.66    |
| TOTAL TRANSFERS TO OTHER DEPTS | 99,750      | 4,189,500   | 58.93      | 2,468,812.50   | 802,701           | 33,713,449    | 58.01      | 19,558,650.66    |
| 7409 MISCELLANEOUS REVENUE     | 0           | 0           | 0.00       | 23,542.71      | 0                 | 0             | 0.00       | 678,375.17       |
| MISC REV-VISTA (LC)            | 0           | 0           | 0.00       | 89,202.14      | 0                 | 0             | 0.00       | 1,213,491.71     |
| TOTAL MISCELLANEOUS REVENUE    | 0           | 0           | 0.00       | 112,744.85     | 0                 | 0             | 0.00       | 1,891,866.88     |
| GRAND TOTAL TRANSFERS          | 7,029,353   | 271,278,559 | 71.76      | 194,661,376.63 | 71,517,841        | 2,791,907,113 | 67.68      | 1,889,461,557.79 |

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LAKE CHARLES REFINERY  
ANALYSIS OF TRANSFERS TO MARKETING

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14:21

| PRODUCT DESCRIPTION            | DECEMBER 90 |         |            | YEAR TO DATE----- |            |         |            |                  |
|--------------------------------|-------------|---------|------------|-------------------|------------|---------|------------|------------------|
|                                | BARRELS     | GALLONS | UNIT PRICE | AMOUNT            | BARRELS    | GALLONS | UNIT PRICE | AMOUNT           |
| 7401 REFINING TRANSFERS-MARKET | 4,908,312   |         |            | 145,873,342.74    | 48,826,161 |         |            | 1,409,903,403.21 |
| 7402 REFINING TRANSFERS-REFINI | 1,547,565   |         |            | 35,896,577.31     | 16,419,358 |         |            | 372,054,713.57   |
| 7403 REFINERY CONSUMPTION      | 203,198     |         |            | 3,551,443.67      | 2,276,690  |         |            | 30,350,087.78    |
| 7404 INTERREFINERY TRANSFERS   | 0           |         |            | (2,447,497.01)    | 625,874    |         |            | 2,799,462.45     |
| 7405 TRANSFERS TO NGP          | 142,457     |         |            | 3,857,866.00      | 1,574,498  |         |            | 21,582,581.50    |
| 7406 EXCHANGE DELIVERIES       | 128,071     |         |            | 4,348,086.57      | 1,314,853  |         |            | 29,780,849.85    |
| 7407 TRANSFERS TO OTHER DEPART | 99,750      |         |            | 2,468,812.50      | 802,701    |         |            | 19,558,650.66    |
| 7409 MISCELLANEOUS REVENUE     | 0           |         |            | 112,744.85        | 0          |         |            | 1,891,866.88     |
| GRAND TOTAL TRANSFERS          | 7,029,353   |         |            | 194,661,376.63    | 71,840,138 |         |            | 1,887,921,615.89 |

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LAKE CHARLES REFINERY  
SUMMARY SALES BY PRODUCT GROUP

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| PRODUCT GROUP               | BARRELS   | GALLONS    | UNIT PRICE | AMOUNT        |
|-----------------------------|-----------|------------|------------|---------------|
| REGT 0010                   | 0         | 0          | 0.00       | 0.00          |
| UNLT 0015                   | 1,605,415 | 67,427,472 | 64.72      | 43,639,059.88 |
| MGUT 0016                   | 241,739   | 10,153,038 | 65.76      | 6,676,637.79  |
| SULT 0017                   | 180,538   | 7,582,596  | 67.21      | 5,096,262.77  |
| GCOM 0025                   | 174,700   | 7,337,400  | 64.72      | 4,748,765.28  |
| NAPH 0109                   | 0         | 0          | 0.00       | 0.00          |
| LSRG 0116                   | 0         | 0          | 0.00       | 0.00          |
| 01 MOTOR GASOLINE           | 2,202,393 | 92,500,506 | 65.04      | 60,160,725.72 |
| 02 OTHER DISTILLATES        | 0         | 0          | 0.00       | 0.00          |
| J50T 0150                   | 746,247   | 31,342,374 | 79.56      | 24,935,992.76 |
| LVIT 0162                   | 0         | 0          | 0.00       | 0.00          |
| LVT2 0165                   | 1,299     | 54,558     | 126.90     | 69,234.11     |
| C140 6040                   | 758       | 31,836     | 81.90      | 26,073.68     |
| NPFK 0100                   | 237,990   | 9,995,580  | 88.53      | 8,849,086.97  |
| 03 PREMIUM DISTILLATES      | 986,294   | 41,424,348 | 81.79      | 33,880,387.52 |
| DFST 0059                   | 0         | 0          | 0.00       | 0.00          |
| DG2T 0060                   | 255,581   | 10,734,402 | 75.02      | 8,052,948.38  |
| N2FT 0042                   | 1,722,072 | 72,327,024 | 75.02      | 54,259,733.41 |
| DCOM 0066                   | (20,038)  | (841,596)  | 75.02      | (631,365.32)  |
| AROL 0067                   | 0         | 0          | 0.00       | 0.00          |
| LCGO 0082                   | 811       | 34,062     | 76.12      | 25,927.99     |
| 04 INTERMEDIATE DISTILLATES | 1,958,426 | 82,253,892 | 75.02      | 61,707,244.46 |
| ICGO 8542                   | 0         | 0          | 0.00       | 0.00          |
| CGSO 8543                   | 7,801     | 327,642    | 55.51      | 181,874.07    |
| HPCG 8544                   | 95,432    | 4,008,144  | 50.47      | 2,022,910.28  |
| PTAR 8552                   | 0         | 0          | 0.00       | 0.00          |
| TTAR 8553                   | 60,258    | 2,530,836  | 51.35      | 1,299,584.29  |
| SLUR 8585                   | 7,076     | 297,192    | 48.44      | 143,959.80    |
| VACR 8590                   | 67,534    | 2,836,428  | 38.08      | 1,080,111.78  |

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LAKE CHARLES REFINERY  
SUMMARY SALES BY PRODUCT GROUP  
PRODUCT GROUP

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|                    | BARRELS | GALLONS    | UNIT PRICE | AMOUNT       |
|--------------------|---------|------------|------------|--------------|
| 05 HEAVY FUEL OILS | 238,101 | 10,000,242 | 47.28      | 4,728,440.22 |
| 06 LUBE OILS       |         |            |            |              |
| 08 WAX             | 0       | 0          | 0.00       | 0.00         |
| XCKE 8910          | 27,583  | 5,732      | 40,919.96  | 2,345,532.11 |
| LSFR 8911          | 20,464  | 4,253      | 34,794.75  | 1,479,820.72 |
| ISRB 8913          | 14,015  | 2,913      | 22,683.73  | 660,777.05   |
| NPGF 8922          | 17,305  | 3,596      | 31,603.00  | 1,136,443.88 |
| NRCK 8930          | 1,359   | 282        | 25,102.78  | 70,789.84    |
| SFRC 8931          | 0       | 0          | 0.00       | 0.00         |
| ACLC 8932          | 14,741  | 3,063      | 13,975.51  | 428,069.87   |
| HSFP 8934          | 0       | 0          | 0.00       | 0.00         |
| RCAR 8936          | 20,719  | 4,306      | 6,499.57   | 279,871.48   |
| GNAC 8942          | 3,157   | 656        | 12,077.39  | 79,227.68    |
| GHSF 8950          | 397,295 | 82,563     | 2,221.07   | 1,833,782.02 |
| CKFN 8951          | 2,539   | 528        | 6,589.86   | 34,794.46    |
| MSFR 8912          | 0       | 0          | 0.00       | 0.00         |
| TICK 8937          | 0       | 0          | 0.00       | 0.00         |
| CPCA 8939          | 21,289  | 4,424      | 3,629.04   | 160,548.73   |
| CPCA 8969          | 0       | 0          | 0.00       | 0.00         |
| 09 COKE            | 540,466 | 112,316    | 7,576.53   | 8,509,657.84 |
| 10 ASPHALTS        | 0       | 0          | 0.00       | 0.00         |
| 12 LUBE OILS       | 0       | 0          | 0.00       | 0.00         |
| 15 LIGHT ENDS      |         |            |            |              |
| SULP 8997          | 24,587  | 8,262      | 7,076.03   | 584,621.60   |
| SUR2 8992          | 7,008   | 2,355      | 3,258.97   | 76,748.74    |
| SA98 8998          | 1,119   | 361        | (184.60)   | (666.41)     |

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LAKE CHARLES REFINERY  
SUMMARY SALES BY PRODUCT GROUP

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| PRODUCT GROUP               | BARRELS   | GALLONS     | UNIT PRICE | AMOUNT         |
|-----------------------------|-----------|-------------|------------|----------------|
| 16 SULFURIC ACID            | 32,714    | 10,978      | 6,018.44   | 660,703.93     |
| CCFK 0058                   | 98,402    | 4,132,884   | 67.82      | 2,802,921.93   |
| BNZT 0193                   | 20,953    | 880,026     | 149.27     | 1,313,614.81   |
| BZRT 0194                   | 105,599   | 4,435,158   | 66.33      | 2,941,840.30   |
| CCFS 8537                   | 144,229   | 6,057,618   | 60.24      | 3,649,109.08   |
| HYCI 8548                   | 34,721    | 1,458,282   | (40.41)    | (589,219.50)   |
| MCDR 8549                   | 16,930    | 711,060     | 87.70      | 623,599.62     |
| RPPR 8550                   | 18,617    | 781,914     | 33.21      | 259,673.64     |
| RPPY 8551                   | 58,032    | 2,437,344   | 87.03      | 2,121,220.48   |
| 17 IN PROCESS STOCKS        | 497,483   | 20,894,286  | 62.81      | 13,122,760.36  |
| TOTALS                      | 6,455,877 | 247,196,568 |            | 182,769,920.05 |
| TOTAL GROUPS (1 2 3 4 6 12) | 5,147,113 | 216,178,746 |            | 155,748,357.70 |

SAL 000004128

| ENERGY CONSUMPTION REPORT<br>LAKE CHARLES REFINERY |              |              |                |                    |                      |                |
|----------------------------------------------------|--------------|--------------|----------------|--------------------|----------------------|----------------|
|                                                    | YEAR<br>1989 | MONTH<br>DEC | MONTH<br>GOALS | CUMULATIVE<br>1990 | CUMUL.<br>GOALS 1990 | YEARS<br>GOALS |
| PURCHASED ELECTRICITY                              |              |              |                |                    |                      |                |
| MWH                                                | 515725.      | 45079.       | 43015.         | 502348.            | 485611.              | 485611.        |
| \$/KWH                                             | 0.04672      | 0.04883      | 0.04749        | 0.04762            | 0.04884              | 0.04884        |
| COST - \$                                          | 24094696.    | 2201064.     | 2042782.       | 23922573.          | 23719496.            | 23719496.      |
| KWH AS MMBTU                                       | 5157250.     | 450790.      | 430150.        | 5023480.           | 4856110.             | 4856110.       |
| FUEL PROCESSING                                    |              |              |                |                    |                      |                |
| PRODUCED GAS - MSCF                                | 19864020.    | 1829778.     | 1617385.       | 19496859.          | 18519065.            | 18519065.      |
| PRODUCED GAS - BFOE                                | 3237796.     | 270572.      | 261098.        | 3010173.           | 2989573.             | 2989573.       |
| PRODUCED GAS - \$/BFOE                             | 11.68754     | 14.71857     | 16.88000       | 11.91878           | 14.29417             | 14.29417       |
| PRODUCED GAS - DOLLARS                             | 37841880.    | 3982433.     | 4407334.       | 35877576.          | 42733453.            | 42733453.      |
| PURCHASED GAS - MSCF                               | 3375838.     | 392796.      | 280446.        | 3694821.           | 3365352.             | 3365352.       |
| PURCHASED GAS - BFOE                               | 526421.      | 60867.       | 44040.         | 573964.            | 528480.              | 528480.        |
| PURCHASED GAS - \$/BFOE                            | 12.05567     | 15.28789     | 16.88000       | 12.39246           | 14.26916             | 14.26916       |
| PURCHASED GAS - DOLLARS                            | 6346357.     | 930528.      | 743395.        | 7112827.           | 7540968.             | 7540968.       |
| TOTAL BFOE                                         | 3764217.     | 331439.      | 305138.        | 3584137.           | 3518053.             | 3518053.       |
| TOTAL \$                                           | 44188235.    | 4912961.     | 5150729.       | 42990397.          | 50274423.            | 50274423.      |
| BFOE AS MMBTU                                      | 23970534.    | 2110604.     | 1943119.       | 22823785.          | 22402962.            | 22402962.      |
| COKE BURNING                                       |              |              |                |                    |                      |                |
| CAT. CRACKER - TONS                                | 94920.       | 9252.        | 8943.          | 94236.             | 91388.               | 91388.         |
| CAT. CRACKER - BFOE                                | 432266.      | 42134.       | 40726.         | 429151.            | 416179.              | 416179.        |
| CALCINER - TONS                                    | 70648.       | 2206.        | 4774.          | 57074.             | 61475.               | 61475.         |
| CALCINER - BFOE                                    | 499926.      | 15610.       | 33782.         | 403873.            | 435014.              | 435014.        |
| TOTAL BFOE                                         | 932192.      | 57744.       | 74509.         | 833023.            | 851197.              | 851197.        |
| TOTAL \$                                           | 10973161.    | 849908.      | 1257706.       | 9737438.           | 12336908.            | 12336908.      |
| BFOE AS MMBTU                                      | 5936199.     | 367713.      | 474471.        | 5304693.           | 5420418.             | 5420418.       |
| MATERIAL LOSSES                                    |              |              |                |                    |                      |                |
| SOLIDS DISPOSAL, MLBS.                             | 1418.        |              | 150.           | 7672.              | 1800.                | 1800.          |
| MLBS. AS MMBTU                                     | 40413.       |              | 4275.          | 218652.            | 51300.               | 51300.         |
| ATMOS. LOSSES, MLBS.                               | 6549.        | 561.         | 550.           | 6480.              | 6600.                | 6600.          |
| MLBS. AS MMBTU                                     | 144078.      | 12342.       | 12100.         | 142560.            | 145200.              | 145200.        |
| FLARE LOSSES, MLBS.                                | 83592.       | 6996.        | 6200.          | 87925.             | 74400.               | 74400.         |
| MLBS. AS MMBTU                                     | 1839024.     | 153912.      | 136400.        | 1934350.           | 1636800.             | 1636800.       |
| WATER TREATMENT LOSSES, MLBS.                      | 34.          | 4.           | 4.             | 214.               | 48.                  | 48.            |
| MLBS. AS MMBTU                                     | 612.         | 72.          | 72.            | 3852.              | 864.                 | 864.           |
| TOTAL - \$                                         | 3774498.     | 384435.      | 405160.        | 4148251.           | 4109924.             | 4109924.       |
| TOTAL - MMBTU                                      | 2047329.     | 166326.      | 152847.        | 2299414.           | 1834164.             | 1834164.       |
| OTHER                                              |              |              |                |                    |                      |                |
| VEHICLE GASOLINE - BBLS                            | 1259.        | 95.          | 105.           | 1324.              | 1260.                | 1260.          |
| VEHICLE DIESEL - BBLS                              | 1465.        | 87.          | 130.           | 1586.              | 1560.                | 1560.          |
| COST - \$                                          | 101065.      | 9612.        | 8587.          | 126158.            | 103044.              | 103044.        |
| BBLS. AS MMBTU                                     | 15254.       | 1016.        | 1317.          | 16301.             | 15804.               | 15804.         |

| ENERGY CONSUMPTION REPORT<br>LAKE CHARLES REFINERY |              |              |                |                    |                      |                |
|----------------------------------------------------|--------------|--------------|----------------|--------------------|----------------------|----------------|
|                                                    | YEAR<br>1989 | MONTH<br>DEC | MONTH<br>GOALS | CUMULATIVE<br>1990 | CUMUL.<br>GOALS 1990 | YEARS<br>GOALS |
| LESS EXPORTS                                       |              |              |                |                    |                      |                |
| VISTA STEAM - MLBS                                 | 93709.       | 4098.        |                | 57684.             |                      |                |
| COST - \$                                          | 273320.      | 16520.       |                | 178697.            |                      |                |
| MLBS AS MMBTU                                      | 169522.      | 7137.        |                | 100462.            |                      |                |
| VISTA FUEL GAS - BFOE                              | 665709.      | 8726.        | 31000.         | 379073.            | 365000.              | 365000.        |
| COST - \$                                          | 7967251.     | 133421.      | 523280.        | 4590595.           | 5204590.             | 5204590.       |
| BFOE AS MMBTU                                      | 4239235.     | 55567.       | 197408.        | 2413937.           | 2324320.             | 2324320.       |
| NGP FUEL GAS - BFOE                                | 193499.      | 58744.       | 22700.         | 355433.            | 247100.              | 247100.        |
| COST - \$                                          | 2611300.     | 453386.      | 383176.        | 1902341.           | 3539621.             | 3539621.       |

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|                         |           |           |           |           |           |           |
|-------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| BFOE AS MMBTU           | 1232202.  | 374082.   | 144554.   | 2263397.  | 1573535.  | 1573535.  |
| TOTAL \$                | 10902963. | 603327.   | 906456.   | 6671633.  | 8744211.  | 8744211.  |
| MMBTU                   | 5640959.  | 436786.   | 341962.   | 4777797.  | 3897855.  | 3897855.  |
| PLUS IMPORTS            |           |           |           |           |           |           |
| VISTA STEAM - MLBS      | 198778.   | 15673.    |           | 131983.   |           |           |
| COST - \$               | 431415.   | 63163.    |           | 436768.   |           |           |
| MLBS AS MMBTU           | 346192.   | 27296.    |           | 229862.   |           |           |
| SUMMARY                 |           |           |           |           |           |           |
| TOTAL MMBTU             | 31831799. | 2686959.  | 2659942.  | 30919738. | 30631603. | 30631603. |
| REFINERY INPUT - BBLS.  | 61110299. | 4323499.  | 5322700.  | 62771499. | 60264700. | 60264700. |
| MBTU/BBL                | 520.89091 | 621.47794 | 500.00000 | 492.57606 | 508.28434 | 508.28434 |
| CRUDE + CONDENSATE-BBLS | 54259497. | 5424527.  | 4712000.  | 57527526. | 52685600. | 52685600. |
| MBTU/BBL                | 586.65858 | 495.33522 | 565.00000 | 537.47727 | 581.40370 | 581.40370 |
| COST - \$               | 72660107. | 7817816.  | 7958509.  | 74689952. | 81799582. | 81799582. |
| COST - \$/BBL.(INPUT)   | 1.18900   | 1.80822   | 1.49500   | 1.18987   | 1.35734   | 1.35734   |