



# CHALMETTE REFINING, L.L.C.

P.O. Box 1007  
CHALMETTE, LA 70044  
(504) 281-1212

September 13, 2010

Louisiana Department of Environmental Quality  
P.O. Box 4312  
Baton Rouge, LA 70821-4312  
Attention: Emergency & Radiological Service Division- SPOC  
UNAUTHORIZED DISCHARGE NOTIFICATION REPORT

**CERTIFIED MAIL (7009 2820 0004 3570 2968) RETURN RECEIPT REQUESTED**

Louisiana Emergency Response Commission  
c/o Department of Public Safety and Corrections  
Office of State Police  
P.O. Box 66614  
Baton Rouge, LA 70896

**CERTIFIED MAIL (7009 2820 0004 3570 2982) RETURN RECEIPT REQUESTED**

Chief Thomas Stone, Chairperson  
Saint Bernard Parish Emergency Planning Committee  
c/o Saint Bernard Parish Government Complex  
Office of Emergency Preparedness  
8201 West Judge Perez Drive, Suite #207  
Chalmette, LA 70043

**CERTIFIED MAIL (7009 2820 0004 3570 2975) RETURN RECEIPT REQUESTED**

RE: Chalmette Refining L.L.C.  
Incident Numbers #10-05131  
Follow-up Notifications  
Agency Interest Number 1376

Dear Sir/Madam:

Chalmette Refining L.L.C. (CRLLC) notified your office regarding a release of Sulfur Dioxide (SO<sub>2</sub>), Hydrogen Sulfide (H<sub>2</sub>S), NOx (NO and NO<sub>2</sub>), and MSDS Solids— Spent (Used) Fluid Cracking Catalyst (Catalyst) on September 6, 2010. Upon further review, SO<sub>2</sub> and MSDS Solids exceeded a Reportable Quantity (RQ). The RQ for SO<sub>2</sub> is 500 lbs, for VOCs 1000 lbs, for H<sub>2</sub>S 100 lbs, for NOx 1000 lbs, and for MSDS Solids is 5000 lbs.

The information contained herein is submitted pursuant to LAC 33:I.3925, LAC 33.V.Chapter 101.10111.H, and 40 CFR 355.40(b)(3).

1. Facility Location:

Chalmette Refinery  
500 W. St. Bernard Highway  
Chalmette, Louisiana  
St. Bernard Parish

Contact Person:

Jordan Lambert, (504) 281-1989

Emergency Response Coordinator:

Scott Goodwin, (504) 281-1861

2. Date and Time of Verbal Notifications, LDEQ/SERC/LEPC Official Contacted, and Company Official who made the calls:

| Date and Time | Official              | Company Official |
|---------------|-----------------------|------------------|
| 9/6/10 0222   | Christy (SERC & LDEQ) | Victor Baker     |
| 9/6/10 0232   | Dustin (LEPC)         | Victor Baker     |
| 9/6/10 0458   | Emily (SERC & LDEQ)   | Victor Baker     |
| 9/6/10 0452   | Dustin (LEPC)         | Victor Baker     |

3. Date, time discharge began, duration :

The event began on September 6, 2010, at approximately 0140 hours and flaring occurred for approximately 251 minutes at Flare #1 and 480 minutes at Flare #2. Catalyst was released for approximately 30 minutes.

4. Detail of events leading to any emergency condition:

CRLLC had a loss of power due to a bus bar short to ground on the Cat Feed Hydrotreater (CFHT). The short created a voltage dip, which resulted in a power loss to multiple units throughout the refinery. As a result of the power loss, multiple units had to route material to the flare. In addition, unit upset conditions resulted in a temporary pressure imbalance in the FCC regenerator, which allowed a loss of catalyst through the regenerator flue gas scrubber vent.

5. Substance Released:

Sulfur Dioxide (SO<sub>2</sub>)  
Hydrogen Sulfide (H<sub>2</sub>S)  
Spent (Used) Fluid Cracking Catalyst

CAS Number:

7446-09-5 (SO<sub>2</sub>)  
7783-06-4 (H<sub>2</sub>S)  
341982-00 (Spent (Used) Fluid Cracking Catalyst)

DOTD Hazard Class:

SO<sub>2</sub> and Spent (Used) Fluid Cracking Catalyst do not have a designated Hazard Class as per 49 CFR 172.101 Hazardous Materials Table. Hydrogen Sulfide is listed as a hazardous substance per 49 CFR 172.101, Hazardous Materials Table.

EPCRA/EH Status:

SO<sub>2</sub> and H<sub>2</sub>S are listed as an "Extremely Hazardous Substance" per 40 CFR 355, App. A. Spent (Used) Fluid Cracking Catalyst is not listed as an "Extremely Hazardous Substance" per 40 CFR 355, App. A.

Estimated Quantity:

| Quantity of Constituents   |
|--|
| 777 Pounds SO <sub>2</sub> from Thox Stack (EPN 46)                          |
| 105,869 Pounds SO <sub>2</sub> from Flare #1 (EPN 28) and Flare #2 (EPN 29). |
| 283 Pounds H <sub>2</sub> S from Flare #1 (EPN 28)                           |
| 19 Tons Catalyst from FCC Regenerator Flue Gas Scrubber Vent (EPN 47)        |

6. Probable Fate, Disposition, or Media of substance released:  
 SO<sub>2</sub> was released to the atmosphere as a gas through the Emergency Flare System. Catalyst was released to the atmosphere through the FCC regenerator flue gas scrubber vent and settled on the ground.

|                 |       |
|-----------------|-------|
| Wind Speed:     | 3 mph |
| Wind Direction: | NW    |
| Temperature:    | 78 °F |
| Precipitation:  | 0 in  |

7. Remedial Actions taken to stop discharge:  
 Units were either shutdown or rates were reduced in order to minimize the environmental impact.
8. Specific action taken and/or planned to prevent recurrence:  
 The root cause of the power outage is still under investigation. Based on the results of the investigation, measures to minimize the likelihood of recurrence will be identified and implemented as appropriate.
9. Permit number, current permitted limit for the pollutant(s) released, limits Exceeded (if applicable):  
 NA
10. Reporting party status: Present Operator
11. For discharges to ground or groundwater (pollutants migrating, monitoring well data, and routes of migration): NA
12. Agencies Notified: Louisiana Department of Environmental Quality  
 Saint Bernard Parish Fire Department (LEPC)  
 Louisiana State Police
13. Names of all other responsible parties: NA
14. Discharge Preventable: Not preventable. The loss of power and voltage dip was unexpected and not reasonably foreseeable.
15. Extent of Injuries, if any: NA
16. Estimated quantity, identification and disposition of recovered materials, if any: NA
17. Health Risks: There was no emergency condition related to this release and the resulting community exposures would not be expected to have acute or chronic health impacts.
18. Off-site Protective Action: Off-site monitoring was conducted.

If you have any questions or require additional information, please contact Mr. Jordan Lambert (504) 281-1989 or Mr. J. Derek Reese (225) 678-0673.

Very Truly Yours,



J. Derek Reese  
Air Permitting and Compliance Section Supervisor

JKL

Cc (via 1<sup>st</sup> Class US Mail):  
Louisiana Department of Health and Hospitals  
LDEQ Southeast Regional Office, Attn. Mr. Mike Algero and Mr. Danny Odem

**bcc (electronic):**

Shift Supers

RBS

Process Department Head

Process Manager

Contact Engineer

Complex Engineer

SHE Manager

Environmental Group Leader

Refinery Attorney

**Hardcopy File:** RR.AGY.COR.2010.001 (2010 Incident Reports)

**Electronic File:** i:\she\environ\2010 Final Documents

**.doc Location:** I:\she\environ\incident\10Incidents\09/06/10 (Power Failure at CFHT)

Impact #