

Arella 504-483-1812



CHALMETTE REFINING, L.L.C.

JAN 18 2010

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

January 7, 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

Should be 2011 - BJO
- MB # 126163

CERTIFIED MAIL (7010 1870 0000 0613 9456) 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 (7010 1870 0000 0613 9463) 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 (7010 1870 0000 0613 9470) 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 (SO₂), Hydrogen Sulfide (H₂S), NO_x (NO and NO₂), and MSDS Solids-- Spent (Used) Fluid Cracking Catalyst (Catalyst) on September 6, 2010, and sent a follow up letter September 13, 2010. A review of the preliminary root cause investigation was presented at LDEQ headquarters on September 29, 2010. This letter serves a final closeout of the incident per LAC 33:II.3925.A.3. The updated section, 8, is provided in italics.

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 (SO₂)
Hydrogen Sulfide (H₂S)
Spent (Used) Fluid Cracking Catalyst

CAS Number: 7446-09-5 (SO₂)
7783-06-4 (H₂S)
341982-00 (Spent (Used) Fluid Cracking Catalyst)

DOTD Hazard Class: SO₂ 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: SO₂ and H₂S 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 ₂ from Thox Stack (EPN 46)
105,869 Pounds SO ₂ from Flare #1 (EPN 28) and Flare #2 (EPN 29).
283 Pounds H ₂ 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:
 SO₂ 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 was a single phase short to ground due to the presence of unsealed air gaps between the bus bar and glastic support at PS7711. To reduce the likelihood of recurrence, sealant was installed between the bus bars and supports in PS 7711 and acoustic inspection is being performed at another power station that was designed and installed by the same contractor as PS 7711 (until the power station can be taken out of service) in order to identify any signs of potential failure.

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 1st 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)_follow-up2
Impact #