



# Shell Oil Products US

Martinez Refinery  
P.O. Box 711  
Martinez, CA 94553-0071

December 22, 2016

***Via hand delivery to CCC Health Services***

Randall L. Sawyer  
Chief Environmental Health and Hazardous Materials Officer  
Contra Costa Hazardous Materials Programs  
4585 Pacheco Boulevard, Suite 100  
Martinez, CA 94553

Re: 72-Hour Report for 12/19/16 Incident

Dear Mr. Sawyer,

As requested by Contra Costa County Health Services, attached is the 72-Hour report regarding the incident which occurred at Shell Martinez Refinery on December 19, 2016. This report meets the requirements in the "Hazardous Materials Incident Notification Policy" dated January 22, 2016.

If you have any questions, please contact me at 925-313-3079 or via email at [ha.nguyen@shell.com](mailto:ha.nguyen@shell.com)

Sincerely,

  
Ha Nguyen  
Process Safety Manager

Attachment: 72-Hour Follow-up Notification Report Form

CC: ChoNai Cheung, CCCHSD  
Michael Dossey, CCCHSD

**ATTACHMENT B  
72 HOUR FOLLOW-UP NOTIFICATION REPORT FORM  
CONTRA COSTA HEALTH SERVICES**

**For CCHS Use Only:**

Received By: \_\_\_\_\_  
Date Received: \_\_\_\_\_  
Incident Number: \_\_\_\_\_  
Copied To: \_\_\_\_\_  
Event Classification Level: \_\_\_\_\_

**INSTRUCTIONS:** A hardcopy and an electronic copy of this report is to be submitted for all Level 2 and 3 incidents or when requested by CCHS. See Attachment B-1 for suggestions regarding the type of information to be included in the report. Attach additional sheets as necessary. Forward the completed form to:

ATTENTION: Randall L. Sawyer  
Chief Environmental Health and Hazardous Materials Officer  
Contra Costa Hazardous Materials Programs  
4585 Pacheco Boulevard, Suite 100  
Martinez, CA 94553

**INCIDENT DATE:** December 19, 2016  
**INCIDENT TIME:** 1:15 pm (approximately)  
**FACILITY:** Shell Martinez refinery

**PERSON TO CONTACT FOR ADDITIONAL INFORMATION**

Ha Nguyen Phone number 925-313-3079

**I. SUMMARY OF EVENT:**

At approximately 1:15 pm, on December 19, 2016, the Sub 1 bus section G main breaker tripped causing loss of power to two 12kv distribution substations, Sub 1203 and Sub 1206. Sub 1 is one of Shell's three main electrical substations that feed the refinery. This resulted in loss of power to multiple units in LOP, OPCEN, Utilities, and Logistics Vine Hill area. Subsequently, the affected units shutdown due to loss of power.

The Sub 1 bus G main breaker was closed at approximately 1:17PM, restoring power to Sub 1203 and Sub 1206.

The multiple units shutdown caused flaring at the LOP and FXG flares, which resulted in multiple odor complaints from the community.

**II. AGENCIES NOTIFIED, INCLUDING TIME OF NOTIFICATION:**

The following agencies were notified by phone at the times in parentheses for a potential EPA Reportable Quantity (RQ) for hydrogen sulfide (H<sub>2</sub>S):

- Contra Costa County Health Services: 1:25 pm via CWS Level 1, upgraded to CWS Level 2 at 2:00 pm
- Bay Area Air Quality District: CWS Level 1 notification and by phone to inspector at 1:35 pm
- Martinez Police Department: CWS Level 1 notification and by phone at 1:39 pm
- CCC Sheriff Department: CWS Level 1 notification and by phone at 1:40 pm
- Consolidated Fire: CWS Level 1 notification and by phone at 1:41pm
- California Emergency Management Agency at 1:42 pm
- National Response Center at 1:50 pm

**72-HOUR REPORT, PAGE 2**

**INCIDENT DATE:** December 19, 2016  
**FACILITY:** Shell Martinez refinery

**III. AGENCIES RESPONDING, INCLUDING CONTACT NAMES AND PHONE NUMBERS:**

Contra Costa County Health Services Department – Lacy Friedman (915-335-3231)  
Bay Area Air Quality District – Almira Van (415-749-8711)  
Contra Costa County Sherriff – SGT Haley

**IV. EMERGENCY RESPONSE ACTIONS:**

Shell activated the Emergency Operations Center, which brings together Environmental, Health & Safety, Security, Operations, and Management together to assist in coordinating the response. In addition, Shell's Community Sampling Team was deployed to the community to monitor for potential offsite impacts (noise, odors, etc).

**V. IDENTITY OF MATERIAL RELEASED AND ESTIMATED OR KNOWN QUANTITIES:**

The material release from the flare is combustion products of a vent gas that contains H<sub>2</sub>S. When burned in the flare, the H<sub>2</sub>S is combusted to SO<sub>2</sub>. The estimated amount of material released to the LOP flare was 17,615 kg. We will have the emissions information by the 30 day report.

**VI. METEOROLOGICAL CONDITIONS AT TIME OF EVENT including wind speed, direction, and temperature:**

At 1:40 PM, the wind direction was from 23 degrees NE and the wind speed was 4.8 mph. Conditions were clear and the temperature was approximately 53°F.

**VII. DESCRIPTION OF INJURIES:**

There were no injuries

**VIII. COMMUNITY IMPACT including number of off-site complaints, air sampling data during event, etc.:**

There were multiple community calls regarding this incident. The refinery's Ground Level Monitors located on the facility fence-line showed no detection of H<sub>2</sub>S or SO<sub>2</sub> above background levels.

**IX. INCIDENT INVESTIGATION RESULTS**

Is the investigation of the incident complete at this time? No  
If the answer is no, submit a 30 day final or interim report.

If the answer is yes, complete the following:

**X. SUMMARIZE INVESTIGATION RESULTS BELOW OR ATTACH COPY OF REPORT:**

**XI. SUMMARIZE PREVENTATIVE MEASURES TO BE TAKEN TO PREVENT RECURRENCE INCLUDING MILESTONE AND COMPLETION DATES FOR IMPLEMENTATION:**