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APR 04 2016

Contra Costa Health
Hazardous Materials

Patricia Roberts
Manager

**Process Safety Management &
Operational Excellence**
Chevron Products Company
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April 4, 2016

Randall L. Sawyer
Hazardous Materials Program Director
Contra Costa Health Services Department
4333 Pacheco Boulevard
Martinez, CA 94553-2229

RE: 72-Hour Report for the CWS Level 1 Event of March 29, 2016

Dear Mr. Sawyer,

As requested by County Health Services and in accordance with the December 14, 2004 Contra Costa County Health Services (CCCHS) Department Hazardous Materials Incident Notification Policy, Chevron Products Company, a division of Chevron U.S.A. Inc. ("Chevron") is providing a 72-Hour report for the Community Warning System Level 1 event that occurred at the Richmond Refinery on March 29, 2016. We appreciate you giving us until April 4 to supply this report.

If you have any questions or comments, please feel free to contact Karla Salomon of my staff at (510) 242-2508 or me.

Thank you and please call me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Karla Salomon".

Karla Salomon, PSM Team Leader

On behalf of Patricia Roberts, PSM / OE Manager

Attachment: 72-Hour Report

cc: Walt Gil,
ChoNai Cheung,
Patricia Roberts

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Contra Costa Health
Hazardous Materials

For CCHS Use Only:

Received By:

AM

Date Received:

4/4/16

Incident Number:

16-03-29-03

Copied To:

File

Event Classification Level:

1

ATTENTION: Randall L. Sawyer
Hazardous Materials Program Director
Contra Costa Health Services Department
4333 Pacheco Boulevard
Martinez, CA 94553

INCIDENT DATE: March 29, 2016

INCIDENT TIME: 18:15

FACILITY: Chevron Richmond Refinery

PERSON TO CONTACT FOR ADDITIONAL INFORMATION: Karla Salomon
Phone Number: (510) 242-9218

I. SUMMARY OF EVENT

On March 29th at approximately 6:15 pm, an unplanned flaring event occurred. The initiating event of the unplanned flaring was a process upset caused by a level controller mechanical malfunction in the TKC high pressure separator, V-440. During the process upset, operations utilized safety devices (emergency depressuring valves) to maintain the plant in a safe operating posture which resulted in unplanned flaring. Additionally, operations to choose to pull feed to stabilize the unit.

II. AGENCIES NOTIFIED, INCLUDING TIME OF NOTIFICATION

After making a determination of potential off-site consequences from flaring, in accordance with the Contra Costa County Health Services (CCCHS) incident notification policy, a CWS Level 1 notification was sent.

Primary: Community Warning System (CWS):

- Level 1 CWS activated at approximately 18:41
- Event Over CWS activated at approximately 21:30

Secondary: Subsequent notifications via telephone to the agencies below

Agency	Person Reached	Phone Number	Time
Richmond Fire/Police Central Dispatch	Dispatch	510-620-6933	18:43
Contra Costa County Health Services Department	Pager	925-677-6700	18:43
BAAQMD	Left Message	415-749-4979	18:43
BAAQMD for Flow 1500,000 SCF	Pat (no last name)	415-749-4775	18:43

The list above does not include all representatives from all agencies

Subsequent updates were sent to the agencies at 7:00 PM, 7:23, 7:46, 8:11, 8:30 and 8:53. We ended the incident with contact at 9:31pm.

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

At this time, we are aware of the following agencies that have responded.

BAAQMD	Information on Flaring	Quentin Malloy 415-749-4604
Contra Costa County Health Services Department / Hazardous Materials	Requesting a report be made of the incident	Corrine

IV. EMERGENCY RESPONSE ACTION:

Chevron Fire responded to the Norht Yard and started air monitoring within and outside of the fenceline. There were two confirmed H2S odors. Chevron Fire received three outside odor complaints. Two of the complaints were from El Sobrante and the other was unknown. Chevron Fire was only able to make contact with one of the complaints from El Sobrante; the other never answered their phone. Chevron Fire made contact with CCC Health on W. Gertrude around 2110 and informed them of our air monitoring results and the outside odor complaints. CCC Health was satisfied with our findings and that the flaring had stopped at around 2045.

No mutual aid was required for this event.

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

Emissions from flaring associated with the event are summarized below.

Vent gases were combusted with at least 98% combustion efficiency.

	Flare emissions
Vent Gas Volume (SCF)	526,860
SO ₂ (lbs)	10,968
Methane (lbs)	147
Non-Methane Hydrocarbon(lbs)	240
H ₂ S (lbs)	58
NO _x (lbs)	22

* Flare emissions data presented herein is for the date of the flaring (3/29/2016). Estimates herein are based on currently available data. Upon further investigation and analyses, an update will be provided should a significant change of the data occur.

VI. METEOROLOGICAL CONDITIONS AT TIME OF EVENT:

Wind Speed (mph)	3.00
Wind Direction (degree)	300
Precipitation (inches)	0.0
Temperature (F)	63.77

VII. DESCRIPTION OF INJURIES:

There were no injuries associated with this event.

VIII. COMMUNITY IMPACT:

There were no regulatory exceedances based on Ground Level Monitoring data. There are no detects above known health limits based on Air Monitoring data.

Ground Level Monitoring Data Summary

	Background Prior to and Maximum Concentration Readings During the Flaring		
	Castro Street	Office Hill	Gertrude Street
H ₂ S (ppb) Background @ 18:00	1.5	1.1	1.6
H ₂ S (ppb) Max.	3.2	1.9	38.2
SO ₂ (ppm) Background @ 18:00	0.00088	0.0019	0.0025
SO ₂ (ppm) Max.	0.011	0.0019	0.0032

Note: The Cal/OSHA PEL for SO₂ is 2,000 ppb (2 ppm) averaged over an 8-hour period. The Cal/OSHA PEL for H₂S is 10,000 ppb (10 ppm) averaged over an 8-hour period.

Fence Line Air Monitoring Summary

During the time period of flaring, slightly elevated detections of sulfur dioxide were seen at one fenceline monitoring station. None of these detections exceeded the known health limits. There have been other instances when these air monitoring stations registered slightly elevated detections of these compounds from other offsite sources

Community Air Monitoring Summary

During the time period of the event, slightly elevated detections of hydrogen sulfide were seen at one community air monitoring station. None of these detections exceeded known health limits. There have been other instances when these air monitoring stations registered slightly elevated detections of these compounds from other offsite sources.

IX. INCIDENT INVESTIGATION RESULTS:

An incident investigation will be conducted to determine the cause of the flaring.

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

Results will be determined by the investigation.

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

Preventable measures will be determined by the investigation.