

RECEIVED

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Contra Costa Health
Hazardous Materials

For CCHS Use Only:

Received By:

ML

Date Received:

6/1/21

Incident Number:

21051401

Copied To:

Event Classification Level:

1

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: May 14, 2021

INCIDENT TIME: 04:40

FACILITY: Chevron Richmond Refinery

PERSON TO CONTACT FOR ADDITIONAL INFORMATION: Patricia Roberts

(510) 242-3887 (office)

(510) 890-5677 (mobile)

I. SUMMARY OF EVENT

On the morning of May 14, 2021, operators at a process unit received audible alarms, and upon investigation, discovered a fire at a pump within the process unit. Operators made immediate notifications to plant personnel and activated in-plant fire suppression systems. The Refinery's Fire Department was notified and responded to extinguish the fire. Operators pulled feed from the impacted unit and placed it in a controlled stable posture. The area safety flares activated at approximately 05:32 during the plant shutdown.

II. AGENCIES NOTIFIED, INCLUDING TIME OF NOTIFICATION

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 5/14/2021 05:42hrs
- Event Over CWS activated at approximately 5/14/2021 06:11 hrs (flaring ended)/ 05:45 hrs (fire was out)

Secondary: Subsequent notifications via telephone to the agencies below

Agency	Person Reached	Phone Number	Time
Richmond Fire/Police Central Dispatch	CFD – RFD Dispatch	510-223-1214	05/14 0450 hrs.
	RSL – #1796	510-620-6933	05/14 0558 hrs.
Contra Costa County Health Services Department	Paula	925-335-3232	05:52 hrs
BAAQMD	Brittany	800-334-6367	05:59 hrs
Contra Costa Hazmat	Seth	925-448-0006	06:12 hrs
			06:24 hrs
			07:16 hrs
CalOES	Josh Glesson (Case: 21-2572)	800-852-7550	09:21 hrs

The list above does not include all representatives from all agencies

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

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

Contra Costa County Hazmat	Seth Heller	Responded at 0545 and Requested fence line measurements and followed up requesting 72 hr report out.
Richmond Fire Department		Multiple fire engines and a hazmat team

The list above does not include all representatives from all agencies

IV. EMERGENCY RESPONSE ACTION:

Chevron Refinery fire department was notified of an active fire in a process plant, responded, and established incident command. Richmond Fire Department was called in at 4:50 for mutual aid assistance. First responder personnel conducted air monitoring and showed no measurements of concern. Fire fighters responded and the fire was extinguished by 0545.

Operators also followed emergency procedures, pulling feed from the process plant to place it in a controlled and stable posture.

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

The pump process material is a fractionator bottoms gasoil stream.

Emissions from flaring associated with the event are summarized below.

	Flare emissions
Vent Gas Volume (SCF)	201,897
SO ₂ (lbs)	7,018

* Flare emissions data presented herein is for the date of the flaring (5/14/2021). 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: METEOROLOGICAL CONDITIONS AT TIME OF EVENT:

Wind Speed (mph)	15
Wind Direction (degree)	128.0
Precipitation (inches)	0
Temperature (F)	52 F

Information based on data received from the Refinery's meteorological station which is located near Gertrude Street.

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 (Golden Gate)	Gertrude Street
H ₂ S (ppb) Background Avg 1-hr prior to event	3.38	4.86	1.92
H ₂ S (ppb) Max.	3.71	5.79	2.45
SO ₂ (ppb) Avg 1-hr prior to event	5.46	6.02	1.71

SO ₂ (ppb) Max.	5.48	6.15	2.18
Any other items detected to report	NA	NA	NA

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, no obvious detections were seen at the fenceline air monitoring stations.

Community Air Monitoring Summary

During the time period of the event, no obvious detections were seen at the community air monitoring stations.

IX. INCIDENT INVESTIGATION RESULTS:

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