

**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  
Hazardous Materials Programs Director  
Contra Costa Health Services  
4585 Pacheco Boulevard, Suite 100  
Martinez, CA 94553

**INCIDENT DATE:** 4/21/2015  
**INCIDENT TIME:** 10:30am  
**FACILITY:** Chevron Richmond Refinery

**PERSON TO CONTACT FOR ADDITIONAL INFORMATION**

Karla Salomon Phone number 510-242-9218

**I. SUMMARY OF EVENT:**

While starting up the FCC main fractionator bottoms pump, P-105, following routine maintenance, bottoms reflux flow was lost to the main fractionator (10:34 am). Due to the loss of bottoms reflux flow and a resulting main fractionator temperature increase, feed was reduced to the FCC (10:39). Temperatures caused excessive fractionator overhead liquid carryover resulting in a K-130 wet gas compressor trip (10:45) due to high liquid level in the first stage knockout drum. All expected safety instrumented systems and controllers functioned per design. Loss of K-130 WGC resulted in north yard flaring (10:46). Feed was pulled on the FCC (10:57) (and Poly & GHT) in order to stabilize and troubleshoot.

In an overabundance of caution the incident was initially reported as a level 2 using the community warning system. Based on further analysis after the event, this should have been categorized a level 1.

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

Activated a level 2 of the CWS (should have been level 1)

Richmond Fire/Police Central Dispatch – 510-620-6933 11:35

Contra Costa County Health Services Dept. Pager- 925-667-6700 11:39

BAAQMD – 415-749-4979 11:37

State Office of Emergency Services -800-852-7550 11:29

National Resource Center 800-424-8802 11:39

State OES- Not Applicable. The release did not reach the reportable quantity (RQ) thresholds

**72-HOUR REPORT, PAGE 2**

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

CC Health Services – Nick Umemoto

**IV. EMERGENCY RESPONSE ACTIONS:**

Chevron Fire Immediately arranged for downstream air monitoring outside of the refinery.

Chevron Fire Crew went to site of a small fire (50X55 sf) and put the fire out.

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

Per flare sampling data gathered during the event required by Regulation:

Parameter	FCC
SO2 (lbs)	0.119
Methane (lbs)	276.506
NMHC (lbs)	25.561
H2S (lbs)	0.001
NOx (lbs)	14.390

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

\*Visible Flaring only occurred from the FCC flare and had 2 periods which lasted from approximately 10:46:49 AM through 11:00:09 AM and 11:11:49 through 11:14:19 (approx. 15 minutes and 50 seconds)

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

Cloudy

Wind Speed (Mile/Hour)	14.37
Wind Direction (Degree)	193.10
Temperature (F)	53.57

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

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**VII. DESCRIPTION OF INJURIES:**

None

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

- No outside complaints were called into the refinery. The Air District received two complaints for smoke.
- Outside monitoring results:
  - Chevron Fire Department dispatched and no detectable readings were noted by those assigned downwind.
- Fence line monitoring: (No significant changes in concentration to outside monitoring and that could potentially affect the community were detected during the event)

	Maximum Concentration Readings during the flaring period		
	Castro Street	Office Hill	Gertrude Street
H <sub>2</sub> S (ppb) 1045 – 1149	2.23	2.05	1.93
H <sub>2</sub> S (ppb) Limits	60 ppb averaged over 3 consecutive minutes or 30 ppb averaged over any 60 consecutive minutes	60 ppb averaged over 3 consecutive minutes or 30 ppb averaged over any 60 consecutive minutes	60 ppb averaged over 3 consecutive minutes or 30 ppb averaged over any 60 consecutive minutes
SO <sub>2</sub> (ppb) d 1045 – 1149	15.13	1.90	2.16
SO <sub>2</sub> (ppb) Limits	500 ppb continuously for 3 consecutive minutes or 250 ppm averaged over 60 consecutive minutes or 50 ppb averaged over 24 hours.	500 ppb continuously for 3 consecutive minutes or 250 ppm averaged over 60 consecutive minutes or 50 ppb averaged over 24 hours.	500 ppb continuously for 3 consecutive minutes or 250 ppm averaged over 60 consecutive minutes or 50 ppb averaged over 24 hours.

Note: The Cal/OSHA PEL for SO<sub>2</sub> is 2,000 ppb (2 ppm) averaged over an 8-hour period. The Cal/OSHA PEL for H<sub>2</sub>S is 10,000 ppb (10 ppm) averaged over an 8-hour period.

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INCIDENT DATE: 4/21/2015

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**IX. INCIDENT INVESTIGATION RESULTS**

Is the investigation of the incident complete at this time? \_\_\_\_\_ Yes  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:**