

**ATTACHMENT C  
30-DAY FOLLOW-UP NOTIFICATION REPORT  
FORM**

**CONTRA COSTA HEALTH SERVICES**

**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 C-1 for suggestions regarding the type of information to be included in the report. Attach additional sheets as necessary. This form is to be used for update reports after the initial 30-day report has been submitted. Forward the completed form to:

For CCHS Use Only:
Received By: _____
Date Received: _____
Incident Number: _____
Copied To: _____
Event Classification Level: _____

ATTENTION: Matt Kaufman  
Hazardous Materials Program Director  
Contra Costa Health Services Department  
4585 Pacheco Boulevard, Suite 100  
Martinez, CA 94553-2229

**INCIDENT DATE:** 5/27/2021  
**INCIDENT TIME:** 17:45  
**FACILITY:** Chevron Richmond Refinery

**PERSON TO CONTACT FOR ADDITIONAL INFORMATION:** Patricia Roberts  
Phone number (510) 242-3887 (office) / (510) 890-5677 (mobile)

**PROVIDE ANY ADDITIONAL INFORMATION THAT WAS NOT INCLUDED IN THE 72-HOUR REPORT WHEN THE 72-HOUR REPORT WAS SUBMITTED, INCLUDING MATERIAL RELEASED AND ESTIMATED OR KNOWN QUANTITIES, COMMUNITY IMPACT, INJURIES, ETC.:**

**I. INCIDENT INVESTIGATION RESULTS**

Is the investigation of the incident complete at this time? \_\_\_X\_\_\_ Yes \_\_\_\_\_ No  
If the answer is no, when do you expect completion of the Investigation? \_\_\_\_\_  
If the answer is yes, complete the following:

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

At approximately 17:45 on 5/27/21, the refinery experienced the loss of all boilers in operation which caused a significant loss of refinery steam production. Loss of refinery steam production ultimately resulted in process plant flaring beginning at approximately 18:00 due to a steam driven compressor slowing down and causing a process plant upset.

The boilers tripped offline because of an activation of a safety system due to a significant change in fuel gas composition being delivered to the boilers. The fuel gas composition change occurred when a different process plant was brought online that supplies fuel gas to the refinery.

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

- 1) Update process plant startup procedure to include notifications to Power Plant Operations prior to initial pressurizing and startup (9/30/21).
- 2) Consider implementing automatic logic and controls to better manage fuel gas composition swings at the Power Plant Boilers (6/25/22).

**STATE AND DESCRIBE THE ROOT-CAUSE(S) OF THE INCIDENT:**

The cause of the incident was determined to be a fuel gas composition change that led to the boilers tripping offline. The root causes were determined to be:

1. The process plant startup procedure does not include notifications to Power Plant Operations.
2. Boiler logic and control is not automatic and requires manual intervention by Power Plant Operations.