



**30 DAY FOLLOW-UP NOTIFICATION REPORT FORM
CONTRA COSTA HEALTH SERVICES HAZARDOUS MATERIALS
PROGRAMS**

INSTRUCTIONS: A hardcopy and an electronic copy of this report is to be submitted for all Public Health Advisory – Level 2 and Public Protective Actions Required – Level 3 incidents or when requested by CCHSHMP. 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:

For CCHSHMP Use Only:	
Received By:	<u>WAB</u>
Date Received:	<u>5/26/23</u>
Incident Number:	<u>230131 -05</u>
Copied To:	_____
Event Classification Level:	<u>1</u>

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

INCIDENT DATE: 01/31/2023
INCIDENT TIME: 11:25
FACILITY: Martinez Refining Company LLC

PERSON TO CONTACT FOR ADDITIONAL INFORMATION

Michael Marlowe Phone number (831) 332-2820

I. SUMMARY OF EVENT:

Column 80 in the crude unit had already been isolated, chemically cleaned, and rinsed for turnaround related work. 7 days after initial entry, contract personnel had stopped chipping heavily packed residual coke like material in the column and gone to lunch. Safety contractor responded to Area-ray confined space monitors to investigate abnormal readings and observed smoke in the area. Safety contractor notified operations staff and flames were observed inside the manway. MRC emergency response personnel were notified and immediately responded.

II. AGENCIES NOTIFIED, INCLUDING TIME OF NOTIFICATION:

CCCHSD – Level 1 CWS – 12:09
CCCHSHMP – Adam Springer – 16:37
BAAQMD – 12:57 / 13:01

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

BAAQMD – McKenzie Bell – (415) 793-6649
CCHSMP – Duty personnel
Contra Costa County Fire Department – reported to staging area only

IV. EMERGENCY RESPONSE ACTIONS:

MRC Emergency Broadcast System (EBS) made an announcement and called for MRC Emergency Response Personnel, who arrived and worked to extinguish the fire. The fire was extinguished, and MRC emergency response personnel continued to saturate the material with firewater due to continued smoldering. The incident all clear was given at 5:25 PM. The following morning, while making adjustment to the firewater, a small flame was observed and immediately extinguished by MRC personnel. To prevent further issues, the column was inerted using nitrogen so the material could be removed.

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

Smoke and steam from column visible from offsite.

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

Current Conditions **Display Nautical Data**
Data from weather station martinez station id: MID_E7741 located at 38.00883 -122.11833

As of Date/Time: 01/31/2023 16:50

Temperature: 60	Fahre... ▼	Feels Like: 60	Fahrenheit
Wind Speed: 5.8	mph ▼	Dew Point: 28	Fahrenheit
Wind Direction (from): NE	▼	Pressure: 30.18	in ▼
Visibility:	mile(s) ▼	UV Index:	
Humidity (%): 30		Sunrise: 07:13	🕒
Short Description: Sunny	▼	Sunset: 17:30	🕒

Full Description: Sunny

VII. **DESCRIPTION OF INJURIES:**

No Injuries

VIII. **COMMUNITY IMPACT** including number of off-site complaints, air sampling data during event, etc.:
Smoke and steam visible from off-site – three public phone calls to the MRC Environmental Hotline were received.

IX. **INCIDENT INVESTIGATION RESULTS**

Is the investigation of the incident complete at this time? X 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:** Root cause was pyrophoric material that was exposed to oxygen and became dry enough to begin smoldering. Heat generated from the smolder caused coke material within the packed bed to ignite.

XI. **SUMMARIZE PREVENTATIVE MEASURES TO BE TAKEN TO PREVENT RECURRENCE INCLUDING MILESTONE AND COMPLETION DATES FOR IMPLEMENTATION:**
Immediate Action Taken: Reviewed work practices and identified a non-conformance with contract partners work instruction versus field execution for keeping potential pyrophoric material adequately wet. Due to this issue and other performance issues, the contract partner had scope reduced and ultimately was removed from the turnaround.
Longterm Action: Include further steps for adequate wetting of material in the TAR work plan for any column or vessel with potential for pyrophoric material. Include steps to increase process step verifications and increase monitoring if the work is not done under nitrogen purge.