



Suncor Energy (U.S.A.) Inc.
 Commerce City Refinery
 5801 Brighton Blvd.
 Commerce City, Colorado 80022
 Tel (303) 286-5701
 Fax (303) 286-5702
 www.suncor.com

CDPHE Malfunction Reporting Form	
Suncor Representative	Drew Leonard
Date of E-Mail Notification	Monday, March 13, 2017
Time of E-Mail Notification	11:30 AM
Estimated Event Start Date and Time	3/11/17 9:54 PM
Estimated Event End Date and Time	ongoing
Operating Permit No.	96OPAD120 - West Plant
AIRS ID No.	100-H25 073-Plant 1 Main Plant Flare 074 - Plant 3 Flare 025 - #1 FCC Regenerator
Condition of Permit, Regulation, or Standard Potentially Deviated From (e.g., Condition 25.1)	EPCRA 500 lb SO2 RQ CERCLA 100 lb H2S RQ 29.8/58.2 - Flame Present at All Times 29.8/58.1 - Visible Emissions (<5 minutes in any 2 hours) 29.9 - H2S in P1 Flare Gas (3-hr avg) 20.1 - 15.68 lb/hr SO2 (1-hr avg) 20.6 - 250 ppm SO2 at 0% O2 (12-hr avg) 22.7/35.1 - Opacity not to exceed 20% (State) (6-min avg) 22.7/55.1 - Opacity not to exceed 30% (Federal) (6-min avg) 22.10 - 500 ppm CO at 0% O2 (1-hour avg) 30.10 - H2S in P3 Flare Gas (3-hr avg)
Estimated Maximum Numeric Value of Deviation^a (e.g., ppm, ppmc lb/hr, etc.)	P1 Flare - H2S in Flare Gas 300 ppm (3-hr avg) H-25 - 429 lb/hr SO2 (1-hr avg) H-25 - 37,297 ppm SO2 at 0% O2 (12-hr avg) >500 lbs SO2 - Exact amount being determined 1FCC Opacity-46% (6-min avg) 1FCC CO - 618 ppm at 0% O2 (1-hr avg) P3 Flare - H2S in Flare Gas 330 ppm (3-hr avg) >100 lb H2S - Exact amount being determined
Information Regarding Cause of Deviation^b	Plant-wide power failure.

Notes:

^aThese are draft emissions estimates and are subject to revisions and/or updates. The final emissions will be reported on the quarterly excess emissions reports.

^bInformation regarding the cause of the deviation may change based on the results of pending investigations. The final deviation cause will be provided in the Malfunction Forms.

File Location

<Z:\400 Multi-Media\490 Exceedance Reports & Results\492 Permit Exceedances & Upset Reports\531.03 2012 Upsets\Malfunction Report Template>