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CDPHE Malfunction Reporting Form	
Suncor Representative	Craig Neuman
Date of E-Mail Notification	Friday, December 23, 2022
Time of E-Mail Notification	10:30 AM
Estimated Event Start Date and Time	12/21/22 8:00 PM
Estimated Event End Date and Time	On-Going
Operating Permit No.	95OPAD108 - East Plant & 96OPAD120 - West Plant
AIRS ID No.	073 - Main Plant Flare (F1) 074 - Plant 3 Flare (F2) 025 - #1 Fluid Catalytic Cracking Unit (P103) 279 - Plant 2 Flare (C005) 100 - H-25 TGU Incinerator (H25) Various - Fuel Gas System
Condition of Permit, Regulation, or Standard Potentially Deviated From (e.g., Condition 25.1)	<p>96OPAD120 - Plant 1 & Plant 3 Operating Permit <u>Condition 20.1</u> - emissions of SO₂ not to exceed 15.68 lbs/hr <u>Condition 20.6</u> - emissions of SO₂ not to exceed 250 ppmv @ 0% on a 12-hour rolling average <u>Condition 22.7</u> - opacity not to exceed 20% <u>Condition 29.8</u> - no visible emissions except for periods not to exceed a total of 5 minutes during any 2 consecutive hours. <u>Condition 29.9</u> - Plant 1 flare gas shall not exceed 162 ppmv H₂S averaged over a 3-hour period. <u>Condition 30.10</u> - Plant 3 flare gas shall not exceed 162 ppmv H₂S averaged over a 3-hour period. <u>Condition 46.1</u> - shall not burn in any fuel gas combustion device any fuel gas that contains H₂S in excess of 162 ppmv determined hourly on a 3-hour rolling average basis.</p> <p>95OPAD108 - Plant 2 Operating Permit <u>Condition 32.9</u> - Plant 2 flare gas shall not exceed 162 ppmv H₂S averaged over a 3-hour period.</p> <p>EPCRA RQ - 500 lbs SO₂ (24-hour rolling total)</p>
Estimated Maximum Numeric Value of Deviation^a (e.g., ppm, ppmc lb/hr, etc.)	<p>H-25 SO₂ - 658 lbs/hr / 8,243 ppmv Plant 1 Main Plant Flare H₂S - 322 ppmv Plant 3 Flare H₂S - 191 ppmv #1 FCCU Opacity - 27% Fuel Gas System H₂S - 300 ppmv Total SO₂ - still under evaluation Plant 2 Flare H₂S - 169 ppmv</p>
Information Regarding Cause of Deviation^b	Event is currently under investigation

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.