

# Environmental Reportable Events Summary



**March 15, 2024 – April 15, 2024**

*Emissions violations are determined following review by the Colorado Department of Public Health & Environment (CDPHE); emissions exceedances do not necessarily constitute violations.*

<b>Event Date:</b> March 24, 2024	
<b>Event Title:</b> Plant 1 – No. 1 Sulfur Recovery Unit (SRU) Startup	
<b>Impacted Media</b> (air, water, or soil): Air	
<b>Operating Unit:</b> Plant 1 – Tail Gas Unit Incinerator (H-25)	
<b>Event Summary:</b>	
<p>On March 24, 2024, at approximately 5:00 p.m., during a planned startup of the No. 1 Sulfur Recovery Unit (SRU), an imbalance in the H<sub>2</sub>S to sulfur ratio in the No. 1 SRU caused an increase in hydrogen sulfide (H<sub>2</sub>S). H<sub>2</sub>S rich gases were sent to the Tail Gas Unit Incinerator (H-25) and emitted as sulfur dioxide (SO<sub>2</sub>), resulting in a brief period of excess emissions.</p> <p>The relevant permit terms or conditions for this event include:</p>	
<b>Permit Term or Condition</b>	<b>Maximum Reported Value</b>
Title V Operating Permit 96OPAD120, Section II, Condition 20.1 – SO <sub>2</sub> from the tail gas incinerator (H-25) shall not exceed 15.68 lbs/hr.	3/24/2024 5:00 p.m. – 6:00 p.m. (1 hour) Maximum SO <sub>2</sub> : 17.25 lbs/hr
<p>The Commerce City North Denver Air Monitoring network of sensors within a three-mile radius of the refinery did not detect any levels above the acute health reference guidelines during this event. In addition, the refinery’s fenceline monitoring system (required by Colorado House Bill 21-1189) did not detect any increased levels of monitored compounds.</p>	

*\*Information in this report is based on the facts known to Suncor Energy (U.S.A.), Inc. at the time of preparation. We may update or change the information contained herein if and to the extent additional facts become available.*

# Environmental Reportable Events Summary

**March 15, 2024 – April 15, 2024**

*Emissions violations are determined following review by the Colorado Department of Public Health & Environment (CDPHE); emissions exceedances do not necessarily constitute violations.*

<b>Event Date:</b> April 9, 2024							
<b>Event Title:</b> Plant 1 – Tail Gas Unit (TGU) Incinerator (H-25)							
<b>Impacted Media</b> (air, water, or soil): Air							
<b>Operating Unit:</b> Plant 1 – Tail Gas Incinerator							
<b>Event Summary:</b>							
<p>On April 9, 2024, at approximately 3:07 a.m., during the transfer of sour water from Tank No. 1 to Tank No. 52, liquid hydrocarbons were sent to the sour water stripper, which produced hydrocarbon gases that were sent to the No. 2 Sulfur Recovery Unit (SRU), causing an imbalance in the hydrogen sulfide (H<sub>2</sub>S) to sulfur ratio. H<sub>2</sub>S was sent to the Tail Gas Unit Incinerator (H-25) and emitted as sulfur dioxide (SO<sub>2</sub>).</p> <p>Operations investigated the transfer of liquid hydrocarbons from Tank No. 1 to Tank No. 52 and determined that a valve on Tank No. 1 was left open. Operations will ensure that the valve on Tank No.1 will be closed for future sour water transfers.</p> <p>The relevant permit terms or conditions for this event include:</p>							
<table border="1"> <thead> <tr> <th>Permit Term or Condition</th> <th>Maximum Reported Value</th> </tr> </thead> <tbody> <tr> <td>Title V Operating Permit 96OPAD120, Section II, Condition 20.1 – SO<sub>2</sub> from the tail gas incinerator (H-25) shall not exceed 15.68 lbs/hr.</td> <td>4/9/2024 3:00 a.m. – 4:00 a.m. (1 hour) Maximum SO<sub>2</sub>: 273.7 lbs/hr</td> </tr> <tr> <td>Title V Operating Permit 96OPAD120, Condition 20.6: SO<sub>2</sub> emissions from the tail gas incinerator (H-25) not to exceed 250 ppmv @ 0% O<sub>2</sub> on a 12-hour rolling average.</td> <td>4/9/2024 3:00 a.m. – 3:00 p.m. (12 hours) Maximum SO<sub>2</sub>: 517 ppmv</td> </tr> </tbody> </table>		Permit Term or Condition	Maximum Reported Value	Title V Operating Permit 96OPAD120, Section II, Condition 20.1 – SO <sub>2</sub> from the tail gas incinerator (H-25) shall not exceed 15.68 lbs/hr.	4/9/2024 3:00 a.m. – 4:00 a.m. (1 hour) Maximum SO <sub>2</sub> : 273.7 lbs/hr	Title V Operating Permit 96OPAD120, Condition 20.6: SO <sub>2</sub> emissions from the tail gas incinerator (H-25) not to exceed 250 ppmv @ 0% O <sub>2</sub> on a 12-hour rolling average.	4/9/2024 3:00 a.m. – 3:00 p.m. (12 hours) Maximum SO <sub>2</sub> : 517 ppmv
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Title V Operating Permit 96OPAD120, Condition 20.6: SO <sub>2</sub> emissions from the tail gas incinerator (H-25) not to exceed 250 ppmv @ 0% O <sub>2</sub> on a 12-hour rolling average.	4/9/2024 3:00 a.m. – 3:00 p.m. (12 hours) Maximum SO <sub>2</sub> : 517 ppmv						
<p>The Commerce City North Denver Air Monitoring network of sensors within a three-mile radius of the refinery did not detect any levels above the acute health reference guidelines during this event. In addition, the refinery's fence line monitoring system (required by Colorado House Bill 21-1189) did not detect any increased levels of monitored compounds.</p>							

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