

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.

Event Date: March 24, 2024	
Event Title: Plant 1 – No. 1 Sulfur Recovery Unit (SRU) Startup	
Impacted Media (air, water, or soil): Air	
Operating Unit: Plant 1 – Tail Gas Unit Incinerator (H-25)	
Event Summary:	
<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 H₂S to sulfur ratio in the No. 1 SRU caused an increase in hydrogen sulfide (H₂S). H₂S rich gases were sent to the Tail Gas Unit Incinerator (H-25) and emitted as sulfur dioxide (SO₂), resulting in a brief period of excess emissions.</p> <p>The relevant permit terms or conditions for this event include:</p>	
Permit Term or Condition	Maximum Reported Value
Title V Operating Permit 96OPAD120, Section II, Condition 20.1 – SO ₂ 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 ₂ : 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 fence line 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.

Event Date: April 9, 2024							
Event Title: Plant 1 – Tail Gas Unit (TGU) Incinerator (H-25)							
Impacted Media (air, water, or soil): Air							
Operating Unit: Plant 1 – Tail Gas Incinerator							
Event Summary:							
<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 (H₂S) to sulfur ratio. H₂S was sent to the Tail Gas Unit Incinerator (H-25) and emitted as sulfur dioxide (SO₂).</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 – SO₂ 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 SO₂: 273.7 lbs/hr</td> </tr> <tr> <td>Title V Operating Permit 96OPAD120, Condition 20.6: SO₂ emissions from the tail gas incinerator (H-25) not to exceed 250 ppmv @ 0% O₂ on a 12-hour rolling average.</td> <td>4/9/2024 3:00 a.m. – 3:00 p.m. (12 hours) Maximum SO₂: 517 ppmv</td> </tr> </tbody> </table>		Permit Term or Condition	Maximum Reported Value	Title V Operating Permit 96OPAD120, Section II, Condition 20.1 – SO ₂ 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 ₂ : 273.7 lbs/hr	Title V Operating Permit 96OPAD120, Condition 20.6: SO ₂ emissions from the tail gas incinerator (H-25) not to exceed 250 ppmv @ 0% O ₂ on a 12-hour rolling average.	4/9/2024 3:00 a.m. – 3:00 p.m. (12 hours) Maximum SO ₂ : 517 ppmv
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<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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