

Environmental Reportable Events Summary



Event Date: 12/16/2021
Event Title: Boiler 8 Carbon Monoxide (CO) Exceedance
Impacted Media (air, water, or soil): Air
Operating Unit: Boiler 8
Event Summary: <p>The fuel gas regulator connected to Boiler 8 malfunctioned, which contributed to increased Carbon Monoxide (CO) emissions. The CO emissions were brought back into compliance through a rebalancing of steam generation from all Plant 1 boilers.</p> <p>This event began 12/16/2021 at 6:00 a.m. and ended on 12/18/2021 at 3:00 p.m.</p> <p>The specific permit exceedances for this event were:</p> <ul style="list-style-type: none">• Permit limit of 0.060 lb of CO per MMBtu for a 24-hour period (average)<ul style="list-style-type: none">○ Reported at 0.068 lb of CO per MMBtu for a 24-hour period (average) <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.</p>
Event Date: 12/17/2021
Event Title: Tier 2 Event – Hydrogen Unit Trip and Fire Alarm Activated
Impacted Media (air, water, or soil): Air
Operating Unit: Plant 1 Hydrogen Unit and Plant 1 No. 3 Hydrodesulfurization Unit (No. 3 HDS)
Event Summary: <p>During maintenance work on the Plant 1 Hydrogen Unit, the unit tripped inadvertently when instrumentation was being calibrated. This unit trip caused a compressor in the No. 3 HDS to also trip, which resulted in excess gases being routed to the Plant 1 flare. As the No. 3 HDS was being shutdown, a leak developed in one of the heat exchangers, which resulted in a fire. The plant alarm was sounded which activated the Suncor Emergency Operations Center (EOC) and Emergency Response Team (ERT). The fire was quickly brought under control and no injuries were reported.</p> <p>More details regarding this Tier 2 event will be included in a separate summary report which will be posted online.</p> <p>The specific permit exceedance for this event was:</p> <ul style="list-style-type: none">• 162 ppm H₂S in Plant 1 Flare Gas for a 3-hour average<ul style="list-style-type: none">○ Reported at 300 ppm (max value) for a 3-hour average <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.</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



Event Date: 01/10/2022
Event Title: Stained Soil Near Tank 3801
Impacted Media (air, water, or soil): Soil
Operating Unit: Tank 3801
Event Summary: During operator rounds on a night shift, an operator found a wet spot by the water draw pan on the west side of Tank 3801. Suncor personnel investigated the area and were not able to find the specific source for the stained soil but determined there was likely an overflow of the water draw pan. Personnel collected soil samples and determined this to be a diesel and water spill and the spill volume was estimated at 1 barrel of diesel/water mix. The stained soil area was excavated until no further staining or hydrocarbon was found and backfilled with clean soil.

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