To: Adams County Board of County Commissioners  
From: Katie Keefe, Environmental Programs Manager  
Through: Noel Bernal, County Manager  
Alisha Reis, Deputy County Manager  
Jenni Hall, Community & Economic Development Director  
Chase Evans, Community & Economic Development Deputy Director  
Date: January 19, 2023  
RE: Suncor Refinery Incidents & Facility Shutdown Briefing  

Summary of Events:  
Due to the extreme and record-setting weather, Suncor’s Commerce City refinery experienced equipment damage. Weather related shutdowns led to several incidents over a week’s time:  
- 1 incident on 12/22/22  
- 2 incidents on 12/24/22  
- 1 incident on 12/27/22  

OSHA initiated an investigation after a fire in one of the plants resulted in reportable injuries.  

On 12/28/22, Suncor decided to shut down the entire facility and put it into safe mode to allow for the inspection of all units and repair of damaged equipment.  
- 2 Plants have completed shut-down with the final Plant nearing full shut-down  
- Expect additional flaring, noise and possibly traffic, during repair work and startup operations.  
- Progressive startup of refinery units and a return to full operations is expected end of Q1 2023.  

Suncor self-reported a series of excess emission events ("EEE"), including releases of hydrogen sulfide, sulfur dioxide, visible smoke and an "opacity exceedance".  
- These EEE and permit limit exceedance reports will be published on the Suncor website within the first half of February.  
- APCD’s Compliance and Enforcement team evaluates all permit limit exceedances and excess emission events to determine if they constitute a violation of the refinery’s operating permit.  
- An APCD inspector conducted a site visit last week to assess the status of emission units and gather additional information for compliance assessment.  

All incidents that occurred in December will be detailed in Suncor’s quarterly community compliance report, which Suncor expects to post by 1/31/23.  

Air monitoring:  
Community air monitors were fully operational before, during, and after incidents and will continue real-time air monitoring, providing continuous data to the data dashboard.  
- No pollutant concentrations recorded/detected above acute health-based guidelines (NOx, CO, PM, SO2).  
- Cultivando’s air monitors located throughout the community also did not detect/log pollutant levels above respective acute health guideline values.
• Continuous emissions monitors required by federal statute and listed in the CAA Title V Operating Permit will remain operational throughout the shut-down, inspection, and repair operations, as well as during plant-wide startup.

• Fenceline monitoring of hydrogen cyanide, hydrogen sulfide, and benzene commenced on 1/1/23 and will remain operational throughout the shut-down and startup operations.

• CDPHE has placed their mobile air monitoring lab near Suncor at Lorraine Granado Community Park (52nd and Steele). The mobile air monitoring lab conducts continuous, real-time monitoring of the following:
  ✓ Total VOC
  ✓ BTEX
  ✓ CAPs
  ✓ CH4, O3
  ✓ Collects samples for speciated VOC analysis

• CDPHE is currently reviewing all raw mobile lab data and will post that data to their website in the near future.