

Environmental Planning and Policy Update / Oil and Gas Update

City Council Meeting July 18, 2022

Environmental Updates

- **EPA** has revised PFAS health advisory limits from 70 ppt combined to separate limits of 0.004 for PFAS and 0.02 for PFOS.
- SACWSD averages are 4.6 for PFOA and 13 ppt for PFOS, which exceeds the limits so SACWSD is purchasing additional water from Denver to lower averages.



EPAC: Set draft AQ, water conservation, GHG, waste diversion, tree canopy, community gardens.

August 8: Lotus/Pinyon Low Impact Development (LID) Manual



LOW IMPACT DEVELOPMENT (LID)

KEY PRINCIPLES:

- Conserve natural resources
- Work with site hydrology
- Protect water quality
- Reduce impervious and minimize directly connected areas (MCDIA)
- Apply small-scale controls at the source

TRIPLE BOTTOM LINE BENEFITS:

- Environmental
- Socioeconomic
- Economic





Suncor

Improvement Plan

As part of Suncor Energy (U.S.A.) Inc.'s 2020 settlement agreement with the CDPHE, Suncor engaged Kearney to investigate the root cause of past emission exceedances and identify refinery improvement opportunities. Using the recommendations and findings, Suncor developed an Improvement Plan that includes both required and voluntary measures.

REQUIRED

Enhancing safeguards by investing in automatic shutdown systems for our gasoline-making units (FCCs), to reduce the potential and severity of future catalyst releases

Upgrade the automatic shutdown system of the Plant 1 and 2 FCC

VOLUNTARY MEASURES

Education: strengthening the capabilities of our employees and continuing to expand and reinforce the right culture

- Review key procedures to reflect industry best practice
- Plans to design, build and operate a training simulator
- Continue to build a culture of operational discipline
- Enhance training



Increasing the Safety and Reliability of Gasoline-Making Units

 MARCH
 AUGUST
 JUNE
 MARCH
 APRIL

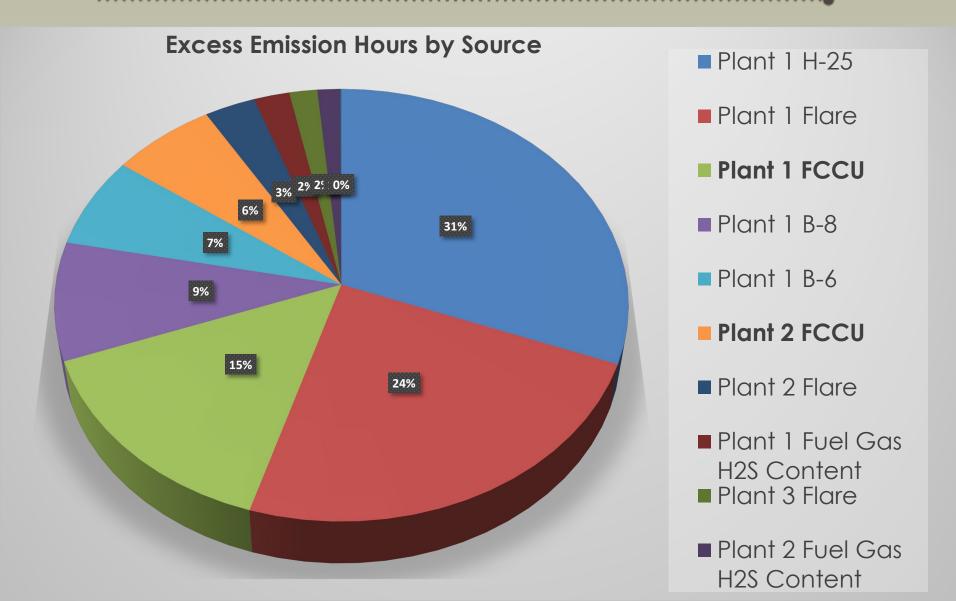
 2020
 2020
 2021
 2022
 2022

Settlement agreement reached between Suncor and state regulator Completed installation of an automatic shutdown system within the DCS of the Plant 2 FCC Completed all upgrades to the Plant 1 FCC automated shutdown system Completed the installation of a PLC and critical automatic shutdown hardware in the Plant 2 FCC

Plant 1 and Plant 2 FCCs are operating with upgraded automatic shutdown systems



Suncor Compliance Databases & Analysis



Equipment Upgrades to the FCC

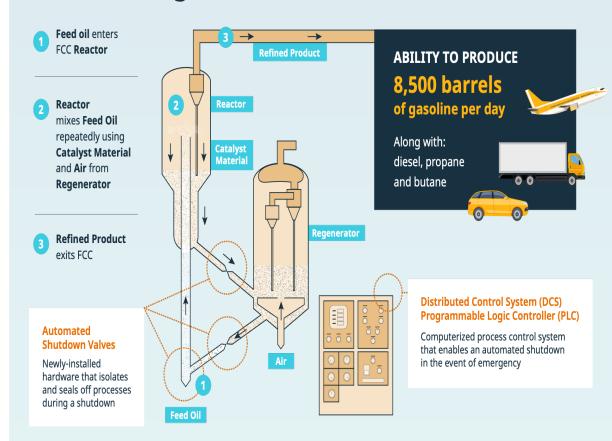
1

Suncor upgraded and installed critical computer systems used in the automatic shutdown process, the **DCS** and **PLC**.

2

Suncor also installed new critical hardware including automated shutdown valves and hydraulic pressure units.

FCC Refining Process



Exceedance Reports

Databases Packet & Website

https://www.c3gov.com/living-in/environment-sustainability/air-

quality

Air, Water, EPCRA & NPDES

- 7 Events
- 13 Exceedances
- Plus * 1 Emergency
 Planning and
 Community Right to
 Know Notification
- No NPDES violations

5/17/2022	5/18/2022	Not listed Oil	Tank 76, Pump J-49	F	Spill
5/22/2022	5/23/2022	30 H2S	Sulfur Recovery Unit, Plant 2 Flare	В	Control Equipment Problems
5/22/2022	5/23/2022	Operating 30 Temperature	Sulfur Recovery Unit, Plant 2 Flare	В	Control Equipment Problems
5/22/2022	5/23/2022	30 SO2	Sulfur Recovery Unit, Plant 2 Flare	В	Control Equipment Problems
5/27/2022	5/28/2022	24 Oil	Tank 3801	С	Process Problem
6/1/2022	6/2/2022	10 H2S	SRU No 3	В	Control Equipment Problems
6/1/2022	6/2/2022	Operating 10 Temperature	SRU No 3	В	Control Equipment Problems
6/2/2022	6/4/2022	44 02	Plant 1 FCC	A	Startup/Shutdow n
6/2/2022	6/4/2022	44 Opacity	Plant 1 FCC	A	Startup/Shutdow n
6/2/2022	6/4/2022	44 Opacity	Plant 1 FCC	A	Startup/Shutdow n
6/2/2022	6/4/2022	44 H2S	Plant 1 FCC	A	Startup/Shutdow n
6/2/2022	6/4/2022	44 H2S	Plant 1 FCC	Α	Startup/Shutdow n
6/3/2022	6/4/2022	31 Btu	Plant 2 Flare	В	Control Equipment Problems
6/3/2022	6/4/2022	31 Visible emissions	Plant 2 Flare	В	Control Equipment Problems

Legislative Updates & Leadership

July 7: Draft Plants 1 (West) and 3 (Asphalt Unit) Title V Operating Permit 96OPAD120 public comment memo

July 8: Reg 38 Water Quality Control Commission scheduled for September 12-15, 2022 Rulemaking Hearing comments



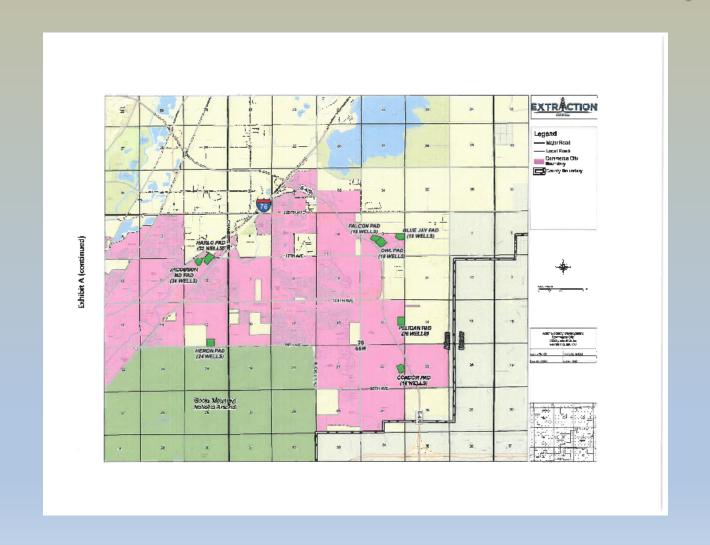
Oil and Gas Update

Civitas

- Verbally expressed intention to withdraw all applications except Blue Jay and Pelican .
- Reduction 7: 2
- Applicant resubmittal expected in August



Oil & Gas Application Map





Questions/Comments? Please contact:

Dr. Rosemarie Russo Environmental Planner III

rrusso@c3gov.com

(303) 289-3652

