

Pasadena Citizens' Advisory Council

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Summary of Tuesday, October 27, 2015 Meeting

ANNUAL REPORT ON AIR EMISSIONS FROM PCAC PLANTS

Tammy Grover of Air Products presented the Annual Report on PCAC Plant Emissions. The Pasadena Citizens' Advisory Council's Annual Report is comprised of two different components: the Emissions Inventory (EI) which plants submit to the TCEQ and the Toxics Release Inventory (TRI) which plants submit to the EPA. Highlights of the 2014 data on emissions are below.

Full Emissions Inventory by Cause	Pounds in 2014	Compared to 2013
Routine Permitted Emissions	16,959,860	7%
Maintenance Emissions	447,610	58%
Upset Emissions	304,014	49%
Emissions Inventory of Selected Criteria Air Pollutants	Pounds in 2013	Compared to 2013
NOx – nitrogen oxides	2,867,201	10%
VOCs – volatile organic compounds	6,490,244	-2%
— Pounds that are highly reactive (HRVOCs)	378,088	9%
SOx – sulfur oxides	3,320,772	99%
CO – carbon monoxide	2,314,410	-2%
TSP – total suspended particulates	1,533,137	-12%
PM 2.5- TSPs less than 2.5 micrometers in diameter	745,828	6%
Toxics Release Inventory (TRI)		
Total releases to the air	1,332,815	21%
Portion from fugitive air sources	368,267	5%
Portion from point air sources	964,548	28%
TRI total air releases from 1997 - 2013	4,749,459 in 1995	1,332,815 lbs in 2014 down 72%
	In 2013	The year before...

Number of Pasadena CAC Plants	17	17
Plants reporting TRI	14	14
Plants reporting air emissions inventory	16	16
Plants reporting Highly Reactive VOCs	10	10

The full Emissions Inventory had an 8% increase that was primarily due to a calculation error Pasadena Refining had last year when they reported their 2013 emissions data. This error significantly impacted the total amount of routine permitted, maintenance, and upset emissions, as well as NOx, SOx, CO, PM 2.5 emissions. HRVOCs increased primarily because of 2 turnarounds at Axiall, and an increase in storage volume for 3rd party light/ intermediate distillate at the Enterprise terminal.

The Toxics Release Inventory data showed a 21% increase from 2013-2014 that was a result of calculation errors at Pasadena Refining, calculation changes at Axiall, and the reporting of hydrogen cyanide from the fluid catalytic cracker at LyondellBasell Refinery.

The report also showed a comparison of some categories of PCAC plant emissions to those of plants in other local CAC/CAPs and overall to emissions in the State of Texas and Harris County.