

Pasadena Citizens' Advisory Council

www.pasadenacac.org

Summary of Tuesday, October 25, 2016 Meeting

Annual Report of Air Emissions from PCAC Plants

John Igoe of BASF presented the annual report on PCAC plant emissions. (PCAC plants rotate serving as the presenter.) The annual report derives its data from two annual inventories: the Air Emissions Inventory (EI), which plants submit to the TCEQ, and the Toxics Release Inventory (TRI), which plants submit to the EPA. Highlights of the 2015 data on emissions follow.

The TCEQ Emissions Inventory data show a reduction from 2014 to 2015 in nitrogen oxides (NOx), volatile organic compounds (VOCs), total suspended particulates (TSP), and the very fine portion of that particulate matter (PM) reported as PM 2.5. Emissions of carbon monoxide (CO) and sulfur oxides (SOx) increased.

The EPA Toxics Release Inventory (TRI) Releases to Air declined from 2014 to 2015.

The report compared NOx and VOC emissions at PCAC plants to those reported in the Air Emissions Inventory in Harris County and in Texas overall. Data from 2014 are the most current. In 2014, 0.4% of the state's NOx emissions came from PCAC plants; and 9% of the county's NOx emissions did so. In 2014, 4% of the state's VOC emissions came from PCAC plants, and 27% of the county's VOC emissions inventory did so.

TRI data may be viewed at www.epa.gov/triexplorer. Readers may filter the data by geographic region, company name, chemical, and so on. Air emissions inventory may be found on the Texas Commission on Environmental Quality website at <https://www.tceq.texas.gov/airquality/point-source-ei/psei.html>

HIGHLIGHTS OF 2015 DATA ON EMISSIONS

Full Emissions Inventory by Cause	Pounds in 2015	Compared to 2014
Routine Permitted Emissions	17,165,869	6%
Maintenance Emissions	583,064	31%
Upset Emissions	240,672	-21%

Emissions Inventory of Selected Criteria Air Pollutants	Pounds in 2015	Compared to 2014
NOx – nitrogen oxides	2,772,936	-2%
All VOCs – volatile organic compounds	5,964,764	-24%
— Pounds that are highly reactive (HRVOCs)	369,776	-2%
SOx – sulfur oxides	4,310,933	29%
CO – carbon monoxide	2,537,690	10%
TSP – total suspended particulates	1,476,670	-4%
PM 2.5- TSPs less than 2.5 micrometers in diameter	672,312	-10%
Toxics Release Inventory (TRI)		
Total releases to the air	1,080,135	-19%
Portion from fugitive air sources	287,586	-22%
Portion from point air sources	792,549	-18%
TRI total air releases from 1997 - 2013	4,749,459 in 1995	1,080,035 lbs in 2015 down 77%
	In 2015	The year before...
Number of Pasadena CAC Plants	17	16
Plants reporting TRI	13	13
Plants reporting air emissions inventory	16	15
Plants reporting Highly Reactive VOCs	9	9

Green = decreased from 2014 to 2015 - Red = increased from 2014 to 2015