



Deer Park Community Advisory Council

DPCAC Receives Annual Report on Emissions from Member Plants

November 30, 2020

Christina Penrose of Lubrizol presented the Air Emissions Inventory and Toxics Release Inventory (TRI) for the Deer Park Community Advisory Council (DPCAC) plants. The Air Emissions Inventory is the collection and evaluation of criteria pollutants, which include total suspended particulates, sulfur oxides, carbon monoxide, and the ozone precursors volatile organic compounds (VOCs) and nitrogen oxides (NOx). The information is submitted yearly to the Texas Commission on Environmental Quality. The Toxics Release Inventory (TRI) is submitted to the US Environmental Protection Agency and tracks the management of certain toxic chemicals that may pose a threat to human health and the environment. Highlights from the Emissions Inventory and TRI are as follows. The report is based on current DPCAC plant participants except for ITC, which was removed from the report until the Deer Park terminal resumes submitting data to DPCAC.

Air Emissions Inventory of Criteria Pollutants	Increase or Reduction from 2015-2019	Increase or Reduction from 2018-2019
Total Criteria Pollutant Emissions	-2%	3%
NOx – nitrogen oxides	0%	3%
VOCs – volatile organic compounds	-13%	5%
SOx – sulfur oxides	-4%	-9%
CO – carbon monoxide	12%	11%
TSP – total suspended particulates	12%	14%
Toxics Release Inventory (TRI)	Increase or Reduction from 2015-2019	Increase or Reduction from 2018-2019
Total TRI releases to the air	-31%	-1%
Benzene	-23%	3%
1,3-Butadiene	-85%	3%
TRI releases to air from 1987 (9 plants) to 2019 (12 plants) are down 87%		

DPCAC's January 25, 2021 meeting, via Zoom, will feature a "State of the Plants" report, in which member facilities will report their 2020 challenges and accomplishments and their 2021 goals and plans. For more information, contact info@deerparkcac.org.

Read about DPCAC meetings and see summaries of our most recent presentations as well as our Questions of the Month at www.deerparkcac.org.

OTHER ITEMS OF INTEREST

Each CAC agenda offers time for Updates of various types. On a set schedule, at each meeting, two or three DPCAC plants provide written updates on safety and environmental performance and business news. At any meeting, plants with significant news make verbal reports. Members report on community activities or ask questions related to the CAC. The CAC also makes decisions on organizational matters as needed. Highlights from Plant Updates are listed in the summary above. The updates below cover April – November 2020.

Dow - Deer Park Operations

No worker injuries since February 2020. COVID-19 precautions remain in place. All personnel who can work from home are working remotely. In addition to temperature monitoring and health screening for all people entering the plant site, there are advanced disinfecting protocols in high traffic area and facial covering requirements for common areas and when within 6 feet of another individual. Systems are in place to track cases or suspected cases of the virus, including contact tracing and quarantine restrictions as needed.

"The primary products produced in the Dow Deer Park plant are acrylates, methacrylates and Primene®. These products are used in a variety of end-use applications including paints, plastics, disposable diapers, fuel additives, antioxidants, caulks and much more. The primary products produced at the Dow Lone Star plant are water-based emulsions which are used in many products such as paint, adhesives, sealants and paper."

GEO Specialty Chemicals, Inc.

GEO Specialty Chemicals had no lost time incidents during the reporting period (April - November 2020) and has completed 468 days without a recordable injury. The site had no reportable spills or reportable air releases during the reporting period. In October, GEO received an amended Water Quality Permit and a draft renewed/amended Title V Air Quality Permit from TCEQ.

"The GEO Specialty Chemicals, Deer Park Facility is a specialty chemicals manufacturing site producing three primary products: Glycine, DAXAD® dispersing agents, and poly-aluminum chloride (PAC) water treatment chemicals. Glycine is the simplest, naturally occurring amino acid. It is used in a variety of applications in the food industry and in pet foods as a flavor enhancer. It also has several pharmaceutical, agricultural, and personal care applications. DAXAD® is a Naphthalene Sulfonate dispersant agent used in a number of industries. Applications include concrete mixes, wallboard, rubber manufacturing, leather dyes, paper and paint manufacturing, and agricultural products. PAC products are water treatment chemicals used for the treatment of potable water. The proven benefits of PAC include reducing overall water treatment costs when compared to traditional programs and effectively removing water turbidity, color, heavy metals and trace organic compounds. For more information about GEO Specialty Chemicals, visit our website at www.GEOSC.com."