

Plain Language Summary for New Source Review (NSR) Renewal and Amendment Application for Air New Source Review Permit Number 22011

The following summary is provided for this pending air permit application being reviewed by the Texas Commission on Environmental Quality as required by 30 Texas Administrative Code Chapter 39. The information provided in this summary may change during the technical review of the application and are not federal enforceable representations of the permit application.

Eastman Chemical Texas City, Inc. (CN600126288) has submitted an Application for Renewal and Amendment to Permit Number 22011. The Di-octyl Terephthalate (DOTP) Unit (RN100212620) manufactures di-octyl terephthalate at 2010 Bay Street South, Texas City, Galveston County.

This renewal will authorize the continued operation of Eastman's DOTP Unit, which is a chemical plant that produces di-octyl terephthalate (DOTP). The amendment will authorize updates to the existing emission sources using the latest emission factor guidance provided by the TCEQ and EPA. Eastman is incorporating emission sources that were authorized by Permits-By-Rule (PBR) and Standard Permit.

Eastman's raw materials are unloaded from rail cars and tank trucks and stored in several storage tanks at the site. The raw materials are fed to a reactor, which produces DOTP and methanol. All process vents are routed to one of two process vent scrubbers. Methanol is pumped into a storage tank. 2-Ethylhexanol is recycled back to the reactor. Any wastewater is routed by hard piping to the plant wastewater treatment system.

Crude DOTP is pumped to stripper feed tanks. From the stripper feed tanks, crude DOTP is stripped until it meets the specifications of DOTP product. Product DOTP is sent to storage tanks. Methanol is loaded into rail cars. Product DOTP is loaded into rail cars, tank trucks, and marine vessels.

Eastman has listed in the application the pollutants and amounts that will be emitted for each facility. Below is the current amount allowed the amount to be added or removed, and the total amount for each pollutant that is proposed to be emitted each year for all the facilities.

Pollutants	Permitted Emissions (Tons Per Year)	Emissions Added/Deleted (Tons Per Year)	Total Proposed Emissions (Tons Per Year)
VOC	8.32	-2.84	5.48
PM	0	0.001	0.001
PM ₁₀	0	0.001	0.001
PM _{2.5}	0	0.001	0.001

The facilities being renewed are controlled by water scrubbers. The new and/or modified facilities will be controlled by the water scrubbers. Storage of high-vapor pressure raw materials will be controlled by a vent condenser. Storage of low vapor pressure raw materials and products will be stored in white storage tanks. Storage of loading of co-product methanol will be controlled by water scrubbers.