

**Plain Language Summary for New Source Review (NSR) Renewal
Application for Air New Source Review Permit Number 46306**

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.

The Dow Chemical Company (CN600356976) has submitted an application for renewal to permit number 46306. The Freeport Energy Center facility (RN100225945) produces energy and steam for use at the site located at 2301 N. Brazosport Blvd., Freeport, Brazoria County.

This renewal will authorize the continued operation of multiple sources such as boilers, fugitives, and a turbine/duct burner. The Dow Chemical Company 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.

Pollutant	Permitted Emissions (tons per year)	Emissions Added/Deleted (tons per year)	Total Proposed Emissions (tons per year)
Volatile Organic Compounds	82.27	(1.99)	80.28
Total Particulate Matter	199.05	0.00	199.05
Particulate Matter (less than 10 microns)	199.05	0.00	199.05
Particulate Matter (less than 2.5 microns)	199.05	0.00	199.05
Nitrogen oxide	189.566	0.00	189.566
Carbon Monoxide	771.569	0.00	771.569
Sulfur Dioxide	12.438	0.00	12.438
NH ₃	136.45	0.00	136.45
H ₂ SO ₄	1.91	0.00	1.91
(NH ₄) ₂ SO ₄	1.59	0.00	1.59
HCl	11.783	0.00	11.783

The facilities being renewed are controlled by the use of Selective Catalytic Reduction (SCR) to reduce the amount of NO_x reaching the atmosphere. The facility uses low sulfur fuel and good combustion practices to reduce the emissions of CO, VOCs, PM, H₂SO₄, HCl, Hg, and Pb. The facility is operated in accordance with the best management practices and good air pollution control.