

**Plain Language Summary for New Source Review (NSR) Renewal Amendment
Application for Air New Source Review Permit Number 114991**

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 of and amendment to permit number 114991. The Polyethylene 5 Facility (RN100225945) produces/manufactures polyethylene at Dow Texas Operation, Freeport, Brazoria County.

This renewal will authorize the continued operation of Polyethylene 5 facility which includes process vents, material handling activities, cooling tower, storage tanks, flare and furnace. The amendment will authorize changes to NSR 114991 as a result of incorporating existing Permit by Rules (PBRs) since the permit's last renewal. Also, there are proposed changes to emissions calculations for the storage tanks, transfer racks, material handling activities and the flare. Dow 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 / Removed (tons per year)	Total Proposed Emissions (tons per year)
VOC	56.95	1.07	58.02
PM	6.87	0.10	6.97
PM ₁₀	5.52	0.10	5.62
PM _{2.5}	4.86	0.10	4.96
NO _x	20.42	0.11	20.53
CO	97.10	1.00	98.10
SO ₂	0.28	0.02	0.30
Ethylene	12.32	0.25	12.57
Propylene	0.85	0.00	0.85
HCl	0.09	0.00	0.09
Acetone	0.02	0.00	0.02

The facilities being renewed continue to be controlled by monitoring piping components for leaks, proper maintenance, good engineering practice, following existing requirements in the permit special conditions such as using flow monitor and composition analyzer to monitor emissions from flare. Existing equipment being renewed/or modified are controlled by flare.