

**Plain Language Summary for New Source Review (NSR) Renewal/Amendment  
Application for Air New Source Review Permit Number 100787**

*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 a renewal/amendment for an amendment to permit number 100787. The Propane Dehydrogenation (PDH-1) Facility (RN100225945) is used for the dehydrogenation of propane to form propylene at Dow Texas Operations, Freeport, Brazoria County.

This renewal/amendment will re-authorize existing equipment as well as authorize changes to NSR 100787 as a result of incorporating existing Permit by Rules (PBRs) since the permit's last renewal. There are proposed changes to the permit including changes to the special conditions as well as changes to emission calculations for equipment associated with catalyst fines. Dow has listed in the application the pollutants and amounts that will be emitted for the PDH-1 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 the facility.

<b>Pollutant</b>	<b>Permitted Emissions (tons per year)</b>	<b>Emissions Added/Removed (tons per year)</b>	<b>Total Proposed Emissions (tons per year)</b>
VOC	84.21	-1.16	83.05
CO	257.14	0.01	257.15
PM	27.31	-9.44	17.87
PM <sub>10</sub>	26.30	-9.44	16.86
PM <sub>2.5</sub>	26.30	-9.44	16.86

The new and/or modified facilities will have their emissions controlled by following existing requirements in the permit special conditions such as using a Continuous Emissions Monitoring System (CEMS) to monitor emissions from the heaters. Existing equipment being renewed are controlled by flares.