

Plain Language Summary for New Source Review (NSR) Renewal Amendment Application for Air New Source Review Permit Number 6176B

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.

United States Department of Energy (CN 600125009) has submitted an application for renewal of and amendment to permit number 6176B. The Bryan Mound Strategic Petroleum Reserve (RN 102206620) stores crude oil in underground salt caverns at 1900 County Road 242A, Freeport, Brazoria County, Texas.

This renewal will authorize the continued operation of the existing crude oil storage facility. The amendment will authorize construction of a new crude oil degasification plant to reduce potential emissions of volatile organic compounds from gassy crude oil. United States Department of Energy 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	11.30	2.28	13.58
Nitrogen oxides	2.07	5.09	7.16
Carbon monoxide	0.48	6.08	6.56
Sulfur dioxide	0.62	-0.46	0.16
Particulate matter less than 10 microns	0.08	0.71	0.79
Particulate matter less than 2.5 microns	0.08	0.71	0.79

The facilities being renewed are controlled by submerged fill pipe on fixed roof tanks, external floating roofs on the three crude oil tanks, and leak detection and repair program for fugitive emissions from crude oil piping components. The new and/or modified facilities will be controlled by the use of an Incinerator, Amine Reboiler, and Emergency Flare for destruction of the process gas from the Degas Plant.