

Plain Language Summary for New Source Review (NSR) Initial Application for Air New Source Review Permit Number 174951

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.

Nueces Green Ammonia, LLC (CN606213569) has submitted an application for initial permit number 174951. The Nueces Green Ammonia Plant (RN111867412) will produce green ammonia from renewable hydrogen and nitrogen. The facility is located near Robstown in Nueces County. The plant will be located on the southwest corner of intersection of FM RD 1889 and County Road (CR) 46 in Nueces County, Texas.

This permit will authorize the construction of a green ammonia plant. The plant will produce green ammonia through the reaction of hydrogen gas generated through electrolysis with nitrogen gas from atmospheric air. The finished ammonia will be stored on-site prior to being shipped offsite via pipeline.

The plant equipment includes a refrigerated ammonia storage tank, a cooling tower, ammonia synthesis plant, two flares for emissions control, two firewater pumps, two emergency generator engines, and diesel storage tank in addition to other equipment that is not a source of regulated air pollutants. The facility will include a water treatment system, water polishing system, electrolyzers, and hydrogen post processing system, which are not a sources of air pollutant emissions. Additionally, this permit authorizes planned maintenance, startup, and shutdown (MSS) activities for the plant.

Nueces Green Ammonia, LLC has listed in the application the pollutants and amounts that will be emitted for each facility. Below is the total amount for each pollutant that is proposed to be emitted each year for all the ammonia plant facilities.

Pollutant	Proposed Emissions (tons per year)
Volatile Organic Compounds (VOC)	0.94
Carbon Monoxide (CO)	26.69
Nitrogen Oxides (NOx)	11.04
Sulfur Dioxide (SO ₂)	0.62
Ammonia (NH ₃)	12.54
Total Particulate Matter (PM)	2.59
Particulate Matter sized less than 10 Microns (PM ₁₀)	1.71
Particulate Matter sized less than 2.5 Microns (PM _{2.5})	0.19