

Plain Language Summary for New Source Review (NSR) Initial Application for Air New Source Review Permit Number 175549

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.

Terra CO2 Opus One LLC (CN 606237543) has submitted an application for initial permit number 175549. The Cleburne Advanced Processing Facility (RN 111930681) will produce/manufacture carbon-free cement from sands and clays at 3865 County Road 902, Joshua, Johnson County.

This permit will authorize raw materials handling, grinding, processing in a natural gas-fired reactor, and loading into tank trucks for delivery to concrete manufacturers. Terra CO2 Opus One 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 facilities.

Pollutant	Proposed Emissions (tons per year)
Organic Compounds	2.7
Particulate Matter	19.7
Nitrogen Oxides	24.8
Carbon Monoxide	41.1
Sulfur Dioxide	99.5
Ammonia	14.7

The new facilities will be controlled by:

Particulate Matter – baghouses and filters will reduce the amount of dust going into the air by 99.97-99.99%

Nitrogen Oxide – ammonia will react with nitrogen reducing air emissions

Sulphur Dioxide – sulphur will be absorbed by dry material, which will reduce air emissions