

Plain Language Summary for New Source Review (NSR) Renewal Application for Air New Source Review Permit Number 71171

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 United States Department of Agriculture (USDA) (CN602297707) has submitted an application for renewal of permit number 71171. The USDA ARS Cotton Production & Processing Research Unit (RN104160510) is a cotton processing research facility located at 1604 East FM 1294, Lubbock, Lubbock County.

This renewal will authorize the continued operation of a Cotton Processing Research Facility. This facility is a full-scale cotton ginning research laboratory equipped with commercial type equipment but is operated in a very limited manner for experimental purposes. It operates very similarly to conventional cotton gins. The seed cotton is unloaded into the facility and is dried using hot air heated by gas burners. The leaf, stem, burrs and other plant material is then removed from the seed cotton in the precleaning equipment. The cleaned seed cotton is then "Ginned" where the seed is removed from the lint. The lint then travels through lint cleaning equipment and is cleaned. The cleaned lint then travels to a Press and is packaged into a Lint bale. This processing equipment can be re-configured in multiple configurations for experimental purposes. The USDA 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)
PM	1.02
PM10	0.32
PM2.5	0.02
VOC	0.00
NOx	0.05
SO2	0.00
CO	0.04

The facilities being renewed continue to be controlled by high efficiency cyclones and small mesh screens. These devices remove the particulate matter from the air to reduce emissions.