

Plain Language Summary for New Source Review (NSR) Renewal Application for Air New Source Review Permit Number 24746

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.

Spade Cooperative, Inc (CN601178247) has submitted an application for renewal of permit number 24746. The Spade Coop Gin (RN102176112) is a cotton processing facility located 2500 feet West of FM54 and FM 168, Spade, Lamb County.

This renewal will authorize the continued operation of a Cotton Gin. This facility is a seasonal processor of raw seed cotton for area farmers. The seed cotton modules from the fields are transported to the facility and temporarily stored before processing. The seed cotton is then 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. This material removed is temporarily stored on-site and periodically removed by truck. The cleaned seed cotton is then "Ginned" where the seed is removed from the lint. The seed is temporarily stored on-site and periodically removed by truck. The lint then travels through lint cleaning equipment and is cleaned. Material removed from these lint cleaners is packaged into a Mote bale. The cleaned lint then travels to a Press and is packaged into a Lint bale. The mote and lint bales are periodically removed by truck. Spade Cooperative, Inc 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 | 104.24 |
| PM10 | 37.69 |
| PM2.5 | 2.69 |
| VOC | 0.23 |
| NOx | 4.17 |
| SO2 | 0.03 |
| CO | 3.51 |

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