

**Texas Commission on Environmental Quality
Air Permits Division**

New Source Review (NSR) Boiler Plate Special Conditions

This information is maintained by the Mechanical/Agricultural/Construction Section and is subject to change. The last update was made **April 2011**. These special conditions represent current NSR boiler plate guidelines and are provided for informational purposes only. The special conditions for any permit are subject to change through TCEQ case-by-case evaluation procedures [30 Texas Administrative Code § 116.111(a)]. Please contact the appropriate Mechanical/Agricultural/Construction Section management if there are questions related to the boiler plate guidelines.

Cotton Gins

SPECIAL CONDITIONS

Permit Number 00000

EMISSION LIMITATIONS

1. This permit authorizes those sources of emissions listed in the attached table entitled "Emission Sources - Maximum Allowable Emission Rates," and those sources are limited to the emission rates and other conditions specified in the table. In addition, this permit authorizes all emissions from planned startup and shutdown activities associated with facilities or groups of facilities that are authorized by this permit.

FUEL SPECIFICATIONS

2. Fuel for the burr grinder engine shall be diesel fuel with a maximum sulfur content of no more than 15 parts per million and shall not consist of a blend containing waste oils or solvents. Use of any other fuel will require prior approval of the Executive Director of the Texas Commission on Environmental Quality (TCEQ). *Use if the gin will utilize a burr grinder that runs on diesel fuel.*

OPERATIONAL LIMITATIONS, WORK PRACTICES, AND PLANT DESIGN

3. Hourly emission rates for the cotton gin and trash handling are based on and the facilities shall be limited to an hourly throughput of 25 bales. Annual emission rates are based on 20,000 bales of stripper, 2,500 bales of burr extracted, and 2,500 bales of picker cotton as well as the following required controls:

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<u>Equipment/Fan Exhausts</u>	<u>Controls</u>
Battery condenser	Small-mesh screens
2nd lint cleaner condensers	Small-mesh screens
All other fan exhausts	High-efficiency cyclones

4. Variations of the annual throughputs of stripper, burr extracted, and picker cotton may exceed 25,000 bales per year provided that the total emissions of particulate matter from the cotton gin do not exceed 16.69 tons per year. The following equation shall be used to determine compliance with allowable emission rates listed on the maximum allowable emission rates table:

Stripper cotton	=	bales/year x 0.000757	=	
Burr extracted	=	bales/year x 0.000486	=	
Picker cotton	=	bales/year x 0.000216	=	
Total	=	_____ bales/year	Total	= _____ tons/year

5. To minimize fugitive emissions, the burr hopper dump area shall be enclosed while loading burr trucks. ***Use if burr hopper is enclosed. Also consider for cases where high nuisance potential exists.***
6. Gin plant roads, parking areas, and other traffic areas shall be sprinkled with water, and/or be treated with effective dust suppressant(s), and/or be paved (with a cohesive hard surface) and cleaned as necessary to maintain compliance with all TCEQ rules and regulations.
7. Emissions of lint and cotton trash shall be minimized by proper maintenance of all buildings and gin equipment. Any accumulations of lint, cotton trash, and/or cotton burrs on the gin property shall be cleaned up and removed from the gin property on a daily basis.

Or...

Emissions of lint and cotton trash shall be minimized by proper maintenance of all buildings and gin equipment. Lint and cotton trash shall be properly stacked utilizing a burr stacker in the burr storage area. Any other accumulations of lint, cotton trash, and/or cotton burrs on the gin property shall be cleaned up and removed from the gin property on a daily basis. ***Use if the gin is utilizing a burr stacker.***

8. Open burr piles shall be maintained in a manner that minimizes dust and accidental fires. ***May be required if gin is using some type of burr piling system.***

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9. A water spray system for the burr stacker shall be used as necessary to minimize visible emissions from traveling off-property during stacking operations. *May be required if gin is using a burr stacker.*
10. The cotton burr tub grinder shall be filled to at least one-half capacity by volume before grinding operations begin and the capacity shall be maintained at that level during grinding operations. *Use if the gin is utilizing a tub grinder for the grinding of cotton burrs.*

RECORDKEEPING REQUIREMENTS

11. Records of annual throughputs for each type of cotton processed shall be maintained at this facility site and made available at the request of personnel from the TCEQ or any other air pollution control program having jurisdiction to demonstrate compliance with permit limitations. These records shall be retained for a rolling 24-month period.