



**NON-TITLE V PERMIT APPLICATION  
 COTTON GIN DESCRIPTION**

|  |                          |   |   |   |
|--|--------------------------|---|---|---|
| Type or print. Submit for each emission source. Submit with the APC 100.   |                          |   |   |   |
| <b>GENERAL IDENTIFICATION AND DESCRIPTION</b>  |                          |   |   |   |
| 1. Organization's legal name and SOS control number (as registered with the TN Secretary of State (SOS))   |                          |   | 2. Emission Source Reference Number   |   |
| 3. Is this air contaminant source subject to an NSPS or NESHAP rule?    Yes                  No<br>If Yes, list rule citation, including Part, Subpart, and applicable Sections: |                          |   |   |   |
| <b>GIN STANDS AND PROCESSING RATE</b>  |                          |   |   |   |
| <b>4. Number of Gin Stands</b>   | Manufacturer of Stand 1: | Model:  | Rated Capacity in Bales/Hr  |   |
|  | Manufacturer of Stand 2: | Model:  | Rated Capacity in Bales/Hr  |   |
|  | Manufacturer of Stand 3: | Model:  | Rated Capacity in Bales/Hr  |   |
|  | Manufacturer of Stand 4: | Model:  | Rated Capacity in Bales/Hr  |   |
| <b>5. Hourly Processing Rate (in Bales/Hr.)</b>  |                          | <b>6. Yearly Processing Rate (in Bales/Yr.)</b> |   |   |
| Average  | Maximum Capacity         | Average   | Highest amount year to date   | Annual bales capacity to be entered on permit |
| <b>AIR POLLUTION EQUIPMENT FOR LINT CLEANER EXHAUST</b>  |                          |   |   |   |
| 7. Number of stages of lint cleaners:  |                          |   |   |   |
| 8. Screen Mesh Covering for Lint Cleaner Exhaust:  |                          |   |   |   |
| 1 <sup>st</sup> Stage:    80 Mesh                  100 Mesh                  Other (Specify) _____   |                          |   |   |   |
| 2 <sup>nd</sup> Stage:    80 Mesh                  100 Mesh                  Other (Specify) _____   |                          |   |   |   |
| 3 <sup>rd</sup> Stage:    80 Mesh                  100 Mesh                  Other (Specify) _____   |                          |   |   |   |
| Not Applicable, no 3 <sup>rd</sup> Stage exists.   |                          |   |   |   |
| 9. Hole Size of Perforated Condenser Drums (diameter in inches)  |                          |   |   |   |
| 1 <sup>st</sup> Stage:    0.033 in.                  0.045 in.                  Other (Specify) _____  |                          |   |   |   |
| 2 <sup>nd</sup> Stage:    0.033 in.                  0.045 in.                  Other (Specify) _____  |                          |   |   |   |
| 3 <sup>rd</sup> Stage:    0.033 in.                  0.045 in.                  Other (Specify) _____  |                          |   |   |   |
| Not Applicable, no 3 <sup>rd</sup> Stage exists.   |                          |   |   |   |
| 10. 1D-3D Cyclone(s) control on lint cleaners:<br>Specify diameters of cyclone(s) used:<br><br>Fan(s) used for exhaust:  |                          |   | 11. 1D-2D Cyclone(s) control on lint cleaners:<br>Specify diameters of cyclone(s) used:<br><br>Fan(s) used for exhaust: |   |

**12. Wet suppression control on lint cleaner exhaust (if used):**

Specify what lint cleaner exhausts are solely controlled by wet suppression or if wet suppression serves as additional control: \_\_\_\_\_

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Describe wet suppression control system that is used for lint cleaner exhaust, number and types of nozzles, water consumption rate (gallons/hour), enclosure etc.

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**13. Other control(s) on lint cleaner exhaust not listed above, describe below:**

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**AIR POLLUTION EQUIPMENT FOR BATTERY CONDENSER**

**14. Screen Mesh Covering on Battery Condenser Drum:**

80 Mesh                      100 Mesh                      Other (Specify) \_\_\_\_\_

**15. Hole Size of Perforated Battery Condenser Drums (hole diameter in inches)**

0.118 in.                      0.033 in.                      0.045 in                      Other (Specify) \_\_\_\_\_

**16. Cyclone control, specify type of cyclone(s) such as 1D-3D cyclone(s) control and diameter(s) of cyclone(s) if used on battery condenser exhaust**

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(Note some battery condensers have both fine mesh screen and cyclone control or neither)

**17. Wet suppression control on lint cleaner exhaust:**

Specify if battery condenser exhaust is solely controlled by wet suppression or if wet suppression serves as additional control to fine mesh screen: \_\_\_\_\_

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Describe wet suppression control system if used on the battery condenser exhaust, number and types of nozzles, water consumption rate (gallons/hour), enclosure etc.:

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**18. Other control(s) on battery condenser exhaust not listed above, describe:**

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**DUST HOUSE CONTROL FOR LINT CLEANERS AND/OR BATTERY CONDENSER**

**19. If an approved dust house is used, specify what lint cleaners and/or battery condenser exhausts are routed to the dust house:**

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Provide a sketch of the dust house indicating dimensions, showing top and side views, baffle arrangements, exhausts entering dust house, wet suppression nozzle layout arrangement, and specify water consumption rate (gallons/hr.) if wet suppression is utilized within the dust house.

**TRASH HANDLING, COLLECTION SYSTEM, AND ASSOCIATED AIR POLLUTION CONTROL EQUIPMENT**

**20. Check and specify how gin trash is collected and handled. Read all categories below before marking this section. Check appropriate box.**

**Trash is first collected at a cyclone bank with trash gathered in a trough/hopper/auger system below or beside the cyclone bank and then trash is pneumatically carried (blown to) one of the following:**

- Cyclone(s) on top of a trash house \_\_\_\_  
Specify types of cyclones such as 1D-3D and trash house cyclone diameters: \_\_\_\_\_
- Waste (hull) pile cyclone(s) augering waste to pile \_\_\_\_  
Specify types of cyclone(s) and respective diameter(s): \_\_\_\_\_  
Is wet suppression used as needed or continuously? \_\_\_\_\_  
If so, specify wet control system, water consumption rate, and nozzle arrangement. \_\_\_\_\_
- Waste (hull) pile cyclone(s) with circular stacker such as a Lipsey system \_\_\_\_\_  
Specify types of cyclone(s) and respective diameter(s) \_\_\_\_\_  
Is wet suppression used on the pile? \_\_\_\_\_  
If so, describe wet control system, water consumption rate, and nozzle arrangement. \_\_\_\_\_
- Cyclone(s) over a truck/trailer shed (not a trash house) emptying waste to truck or trailer in one or more lanes \_\_\_\_\_  
Specify types of cyclone(s) and respective diameter(s) \_\_\_\_\_  
Describe system, such as Y-valve to empty trash from a cyclone to a designated lane, and describe enclosure, etc. \_\_\_\_\_
- Free-standing cyclone(s) emptying to a truck/trailer: \_\_\_\_\_  
Specify types of cyclone(s) and respective diameter(s) \_\_\_\_\_

**Trash is blown directly from ginning operations to cyclones mounted on top of a trash house.**

Specify types of cyclone(s) and respective diameter(s) \_\_\_\_\_

**Trash is collected at a cyclone bank hopper system and belt-conveyed to truck/trailer system or other collector.**

Describe load-out arrangement, belt conveyor, and what protection exists, if utilized, to minimize blowing dust and contain spillage such as sheds, side enclosures, etc. \_\_\_\_\_

**Other trash system not described above.**

Specify types of cyclone(s) and respective diameter(s). \_\_\_\_\_

Describe system, how trash is collected, handled, and air pollution system, e.g. module trash compactor system \_\_\_\_\_

| <b>CYCLONE CONTROL USED THROUGHOUT THE GIN</b>   |  |                                    |
|--|--|------------------------------------|
| <b>21.</b>   | <b>Which cyclones are 2D-2D design and what are the respective diameters? What equipment and process operation(s) do the cyclone(s) serve?</b>   |                                    |
| <b>22.</b>   | <b>Which cyclones are 1D-3D design and what are the respective diameters? What equipment and process operation(s) do the cyclone(s) serve?</b>   |                                    |
| <b>23.</b>   | <b>If cyclones other than 2D-2D or 1D-3D are used such as 1D-2D, specify cyclone type and respective diameters. What equipment and process operation(s) do the cyclone(s) serve?</b>   |                                    |
| <b>24.</b>   | <b>Once gin trash has been collected, how is it ultimately disposed of, maintained, or utilized?</b>   |                                    |
| <b>25.</b>   | <b>Attach a sketch of the gin layout showing gin stands, lint cleaner system, battery condenser, mote processing area, cyclone bank, trash and/or waste handling system such as trash house or waste pile, and dust house. Show the location and ID of all cyclones and other controls such as fine mesh screen and wet suppression.</b> |                                    |
| <b>26.</b>   | <b>General comments applicable to cotton gin and air pollution control systems</b>   |                                    |
| <b>SIGNATURE</b>   |  |                                    |
| <p>If this form is being submitted at the same time as an APC 100 form, then a signature is not required on this form. Date this form regardless of whether a signature is provided. If this form is NOT being submitted at the same time as an APC 100 form, then a signature is required.</p>  |  |                                    |
| <p>Based upon information and belief formed after a reasonable inquiry, I, as the responsible person of the above mentioned facility, certify that the information contained in this application is accurate and true to the best of my knowledge. As specified in TCA Section 39-16-702(a)(4), this declaration is made under penalty of perjury.</p> |  |                                    |
| <b>27. Signature</b>   | <b>Date</b>  |                                    |
| <b>Signer's name</b> (type or print)   | <b>Title</b>   | <b>Phone number with area code</b> |