DEPARTMENT OF ENVIRONMENT AND CONSERVATION
DIVISION OF AIR POLLUTION CONTROL
William R. Snodgrass Tennessee Tower
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Telephone: (615) 532-0554, Email: Air.Pollution.Control@TN.gov

NON-TITLE V PERMIT APPLICATION
CYCLONE DESCRIPTION

Type or print. Submit for each cyclone capable of venting directly to the atmosphere.
Submit with the APC 100.

GENERAL IDENTIFICATION AND DESCRIPTION

1. **Organization's legal name and SOS control number** [as registered with the TN Secretary of State (SOS)]	2. **Emission source Reference Number**	3. **Cyclone No.**

4. Is this air contaminant source subject to an NSPS or NESHAP rule? Yes ☐ No ☐
If Yes, list rule citation, including Part, Subpart, and applicable Sections:

5. **Type of operation:** (check and complete if appropriate) Continuous ☐ Batch ☐	Normal batch time	Normal batches/day

MATERIAL PROCESSED

If cyclone is part of a process emission source for which a Non-Title V Process or Fuel Burning Source Description Form (APC 102) has been completed, item 4 may be left blank. Otherwise complete item 6 for each process source.

6. **Material processed** (specify)	Diagram* reference	Process input rates		
		Design (Lbs./Hr.)	Actual (Lbs./Hr.)	Actual (Tons/Yr.)
Totals				

7. **Specify material blown to cyclone**	Cyclone input rates		
	Design (Lbs./Hr.)	Actual (Lbs./Hr.)	Actual (Tons/Yr.)

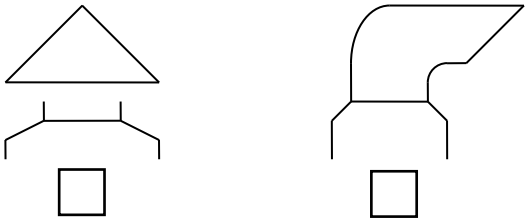
Does material include any fine dust? (Such as sander dust or flour) Yes ☐ or No ☐

CYCLONE DESCRIPTION				
8. Cyclone dimensions: (Ft. & Inches)→	Body height	Body diameter	Cone height	Sketch cyclone cap on diagram below.
See diagram below	Inlet dimensions			
Can air from the cyclone be returned to the plant? No ☐ Yes ☐			Days/Year returned	

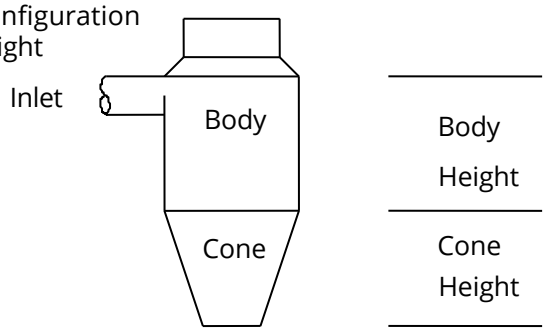
* A process diagram must be attached. If cyclone is routed to another cyclone or other equipment, show sketch of entire system.

Cyclone diagram

Check appropriate outlet configuration below



Sketch other configuration on diagram at right



STACK INFORMATION				
9. Cyclone air exit data:→	Height above grade (Ft.)	Diameter (Ft.) (for circular exhaust)	Height and Width (Ft.) (for rectangular exhaust)	
	Temperature (°F)	Direction of exit (up, down, or horizontal)	Distance to nearest property line (Ft.)	
Data at exit conditions:	Flow (Actual $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture (Grains/$Ft.^3$)	Moisture (Percent)
Data at standard conditions:	Flow (Dry Std. $Ft.^3$/Min.)	Velocity (Ft. /Sec.)	Moisture (Grains/$Ft.^3$)	Moisture (Percent)
10. Specify disposition method of collected material *		Is there an air lock on the cyclone? Yes ☐ No ☐		

11. Control device. Description of proposed monitoring, recordkeeping, and reporting to assure compliance with emission limits. Include operating parameters of control device (flow rate, temperature, pressure drop, etc.).

* If collected material is routed to another cyclone or other equipment, so indicate and include identification number or code of the equipment if appropriate.

EMISSION INFORMATION

12. Air contaminants. Emission estimates for each air contaminant emitted from this point should be based on stack sampling results or engineering calculations. Calculations should be attached on a separate sheet. (see instructions for more details)

Air Contaminants:	Average Emissions (Lbs/hr)	Maximum Emissions (Lbs/hr)	Concen-tration	Average Emissions (Tons/Year)	Potential Emissions (Tons/Year)	Emissions Estimation Method**	Control Efficiency %
Particulate matter (PM)			***				
Other (Specify)							

MACHINE INFORMATION

13. Indicate which machines produce material routed to the cyclone by giving the number of machines and the approximate percent of cyclone operating time the machines are used.

Machine	Number	% Time	Machine	Number	% Time
Self – feed Table Ripsaws			Automatic Lathes		
Gang Ripsaws			Forming Lathes		
Band saws and Resaws			Chain Mortises		
All other saws			Dowel Machines		
Swing – arm Sanders			Panel Raiser		
Disc Sanders			Dove tail and Lock Machines		
Triple – drum Sanders			Corner Machines		
Horizontal belt Sanders			Pulley Pockets		
Vertical belt Sanders			Pulley Stiles		
Jointers			Glue Jointers		
Single Planers			Gainers		
Double Planers			Routers		
Molders, Matchers, and Sizers			Wood Hogs		
Sash Stickers			Floorsweeps		
Wood Shapers			Other (specify)		
Tenoner					
Other (specify)					

14. Comments

** Refer to the instructions for the estimation method and control device codes.

*** Exit gas particulate matter concentration units: Grains/Dry Standard Ft^3 (70°F).

SIGNATURE		
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.		
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.		
15. Signature		**Date**
Signer's name (type or print)	**Title**	**Phone number with area code**