



NON-TITLE V PERMIT APPLICATION INCINERATOR SOURCE DESCRIPTION

Type or print. Submit for each air contaminant source. 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. 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: | | | |
| 4. Type of waste burned (Use code from table) | Charging rate (Pounds/Hour) | | Tons burned per year |
| | Average | Design | |
| 5. Incinerator manufacturer | | Model number | Date installed |
| 6. Incinerator type: | Single chamber | Multi-chamber | Refractory lined Auxiliary burners |

BURNER / FUEL INFORMATION

| | | | | | | |
|--------------------------------|---|---------------------|-----------------------------|------------------|----------------|----------------------|
| 7. Burner data: | Burner capacity (BTU/Hour) | | Air flow (CFM) | | | |
| | Primary | Secondary/Afterburn | Overfire | Underfire | | |
| | Does unit have controlled or starved air? | | Yes | No | | |
| 8. Auxiliary fuel data: | Primary fuel type (specify) | | Standby fuel type (specify) | | | |
| Fuel | Annual usage | Hourly usage | | % Sulfur content | % Ash content | BTU value of fuel |
| | | Design | Average | | | |
| Natural gas | 10 ⁶ Cu. Ft. | Cu. Ft. | Cu. Ft. | / / / / / / | / / / / / / | BTU/Cu. Ft. 1,000 |
| #2 Fuel oil | 10 ³ Gal. | Gal. | Gal. | | / / / / / / | |
| Liquid propane | 10 ³ Gal. | Gal. | Gal. | / / / / / / | / / / / / / | BTU/Gal. 85,000 |
| Other (specify type & units) | | | | | | |

STACK INFORMATION

| | | | | |
|---|--|----------------------|----------------------|---|
| 9. Stack or emission point data: | Height above grade (Ft.) | Diameter (Ft.) | Temperature (°F) | Distance to nearest property line (Ft.) |
| Data at exit conditions | Flow (actual Ft. ³ /Min.) | Velocity (Ft. /Sec.) | Moisture content (%) | |
| Data at standard conditions | Flow rate (dry standard cubic feet per minute) | | | |

EMISSION INFORMATION

10. 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) | Concentration | Average emissions (Tons/Yr.) | Potential Emissions (Tons/Yr.) | Emissions Estimation method* | Control devices * | Control efficiency (%) |
|--|------------------------------|-----------------------------|---------------|------------------------------|--------------------------------|------------------------------|-------------------|------------------------|
| Particulate matter (PM)** | | | gr/dscf † | | | | | |
| Sulfur dioxide (SO ₂) | | | PPM †† | | | | | |
| Carbon monoxide (CO) | | | PPM †† | | | | | |
| Volatile organic compounds (VOC) | | | PPM †† | | | | | |
| Nitrogen oxides (NO _x) | | | PPM †† | | | | | |
| Hydrogen fluorides (HF) | | | PPM †† | | | | | |
| Hydrogen chloride (HCl) | | | PPM †† | | | | | |
| Lead (Pb) | | | PPM †† | | | | | |
| Greenhouse gases (CO ₂ equivalents) | | | | | | | | |
| Hazardous air pollutant (specify) | | | | | | | | |
| Other (specify) | | | | | | | | |
| Other (specify) | | | | | | | | |

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.).

| | | | | | |
|---|-----------------------------|-----------------------------|--|------------------------------------|-----------------------------|
| 12. Scrubber data: | Manufacturer & model number | Water flow (gallons/minute) | Scrubber pressure drop (inches of water) | | |
| Other control (specify and describe) | | | | | |
| 13. Monitoring device and recording instrument (check all that apply): | | | | | |
| Opacity monitor | SO ₂ monitor | NO _x monitor | Strip chart | Electronic data logger | Other (specify in comments) |
| 14. Comments | | | | | |
| 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 | |

- * Refer to the instructions for the appropriate estimation method and control codes.
- ** A valid stack test of particulate matter emissions from manufacturer shall be included with application.
- † Exit gas particulate matter concentration units: Grains/Dry Standard Ft³ (at 70⁰F)
- †† Exit gas concentration units: Parts per million by volume (Dry Basis)

Table of Codes for "Type of Waste Burned"

Principal Components, Usual Source and Typical Moisture Content

| | |
|--|---|
| Highly combustible waste, paper, wood, and cardboard cartons (including up to 10% treated papers, plastic, or rubber scraps) from commercial and industrial sources, 10% moisture..... | 0 |
| Combustible waste, paper, cartons, rags, wood scraps, and combustible floor sweepings from domestic, commercial, and industrial sources, 25% moisture | 1 |
| Rubbish and garbage from residential sources, 50% moisture. | 2 |
| Predominately animal and vegetable waste from restaurants, hotels, markets, institutional, commercial, and club sources, 70% moisture..... | 3 |
| Carcasses, organs, and solid organic wastes from hospitals, laboratories, slaughterhouses, animal pounds, and similar sources, 85% moisture. | 4 |
| Gaseous and semi-liquid industrial process waste, variable moisture. Describe in detail under comments... .. | 5 |
| Solid and semi-solid industrial process waste, variable moisture. Describe in detail under comments... .. | 6 |