**Texas Commission on Environmental Quality**

**Table 5**

**Solid Waste Incinerator**

(Submit three copies for each incinerator)

| **Equipment Information** | | | | |
| --- | --- | --- | --- | --- |
| Type Incinerator: | | | Manufacturer: | |
| Emission Point No. (EPN) *(from flow diagram)*: | | | | |
| Model Number: | | | Capacity (lb/hr): | |
| **Analysis of Fuel** | | | | |
| Type: | Sulfur Content (% by weight): | | | Ash Content (% by weight): |
| Total Fuel Rate (lb/hr or scfh)\*: | | | Gross Heating Value: | |
| Primary Burner Fuel Rate (lb/hr or scfh)\*: | | | Secondary Burner Fuel Rate (lb/hr or scfh)\*: | |
| **Analysis of Refuse** | | | | |
| Type of Refuse: | | Burning rate (lb/hr): | | Gross heating value: |
| Moisture Content (% of refuse): | | | Dry Combustible (% of refuse): | |
| **Operating Characteristics of Incinerator** | | | | |
| Characteristics | | Primary Chamber | | Secondary Chamber |
| Gas Velocity (ft/sec) | |  | |  |
| Volume (ft3) *(from drawing)* | |  | |  |
| Temperature (°F) | |  | |  |
| Residence Time (sec) | |  | |  |
| **Item** | | **Units** | | **Data** |
| Air Requirements | | Total Air (theoretical and excess or total scfm | |  |
| **Combustion Air Distribution** | | | | |
| Primary air through charging door leakage, expansion joints | | % of 2 or scfm\* | |  |
| Over Fire Ports | | % of 2 or scfm\* | |  |
| Under Fire Ports | | % of 2 or scfm\* | |  |
| Secondary Chamber Ports | | % of 2 or scfm\* | |  |
| **Area of Port Openings** | | | | |
| Over Fire Ports | | in2 | |  |
| Under Fire Ports | | in2 | |  |
| Secondary Chamber Ports | | in2 | |  |
| Grate Loading | | lbs/ft2-hr | |  |
| Grate Area | | ft2 | |  |

**Texas Commission on Environmental Quality**

**Table 5**

**Solid Waste Incineration**

| **Operating Characteristics of Incinerator *(continued)*** | | | | |
| --- | --- | --- | --- | --- |
| **Item** | **Units** | | **Data** | |
| Primary Air Induction Draft | inches water gauge | |  | |
| Stack Draft | inches water gauge | |  | |
| Stack Velocity at Exit | ft/sec | |  | |
| Stack Diameter | ft | |  | |
| Stack Height | ft | |  | |
| Stack temperature | °F | |  | |
| Attach an explanation on how temperature, airflow rate, excess air or other operating variables are controlled. | | | | |
| **Other Control Devices and Monitoring** | | | | |
| Are other control devices present (besides secondary chamber)? | | | | Yes  No |
| If other control devices are present, identify the control devices[[1]](#footnote-1): | | | | |
| Selective Noncatalytic Reduction | | Scrubber (wet) | | |
| Scrubber (dry) | | Baghouse | | |
| Other (specify): | | | | |
| Are monitoring systems present? | | | | Yes  No |
| If monitoring devices are present, identify the monitoring systems: | | | | |
| Continuous Emission Monitoring Systems (CEMS) | | | | |
| Continuous Opacity Monitoring System (COMS) | | | | |
| Other (specify): | | | | |
| \*Standard Conditions: 68°F 14.7 PSIA | | | | |
| \*\*Total Air (theoretical and excess) or total scfm | | | | |
| Also supply an assembly drawing dimensioned and to scale, in plan, elevation, and as many sections as are needed to show clearly the operation of the incinerator. Show interior dimensions and features of the equipment necessary to calculate its performance. | | | | |

1. Include appropriate data table for each additional control device and attach information about how these devices work together. [↑](#footnote-ref-1)