

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) <i>(from flow diagram)</i> :		
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 (ft ³) <i>(from drawing)</i>		
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	in ²	
Under Fire Ports	in ²	
Secondary Chamber Ports	in ²	
Grate Loading	lbs/ft ² -hr	
Grate Area	ft ²	

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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)?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If other control devices are present, identify the control devices ^a :		
<input type="checkbox"/> Selective Noncatalytic Reduction	<input type="checkbox"/> Scrubber (wet)	
<input type="checkbox"/> Scrubber (dry)	<input type="checkbox"/> Baghouse	
<input type="checkbox"/> Other (specify): _____		
Are monitoring systems present?		<input type="checkbox"/> Yes <input type="checkbox"/> No
If monitoring devices are present, identify the monitoring systems:		
<input type="checkbox"/> Continuous Emission Monitoring Systems (CEMS)		
<input type="checkbox"/> Continuous Opacity Monitoring System (COMS)		
<input type="checkbox"/> 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.

^a Include appropriate data table for each additional control device and attach information about how these devices work together.