

# Southwest Clean Air Agency

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## INCINERATOR

### I. Manufacturer Information:

- A. Manufacturer Name \_\_\_\_\_
- B. Model and Serial Number \_\_\_\_\_
- C. Drawings Included \_\_\_\_\_
- D. Delivery Quoted \_\_\_\_\_
- E. Price Quoted \_\_\_\_\_

### II. Waste Charging Rates (as fired basis):

#### A. Solids

Waste Type	Maximum Firing Rates (lb/Hr)	Higher Heat Value (Btu/lb)	Content (Wt %)		
			Moisture	Ash	Sulfur
0					
1					
2					
3					
4					

B. Sludges/liquids \_\_\_\_\_

C. Charging Method(s) (describe) \_\_\_\_\_

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**III. Design Parameters:**

	Primary Chamber	Secondary Chamber	Tertiary Chamber
A. Volume (ft <sup>3</sup> )			
B. Configuration			
C. Grate Area (ft <sup>2</sup> )		.....	.....
D. Arch Height (ft)			
E. Burner(s) Manufacturer			
1. Model			
2. Btu Rating			
3. Fuels Fired			
F. Air Flow (CFM)			
1. Burner			
2. Under-grate			
3. Other			
G. Gas velocity (Avg FPS)			
H. Avg Operating Temp (°F)			
I. Max Operating Temp (°F)			
J. Retention Times (Sec)			

**IV. General:**

A. Heat Balance—Continuous Operation

1. Inputs

a. Refuse \_\_\_\_\_ Btu/hr

b. Auxiliary Fuel \_\_\_\_\_ Btu/hr

2. Losses

- a. Dry Stack Gas \_\_\_\_\_ Btu/hr
- b. Moisture in Charge \_\_\_\_\_ Btu/hr
- c. Hydrogen Burned \_\_\_\_\_ Btu/hr
- d. Radiation/Conduction to Surroundings \_\_\_\_\_ Btu/hr
- e. Other (Specify) \_\_\_\_\_ Btu/hr

B. Estimated Outlet Parameters Sampling Results on Similar Installations

- 1. ACFM @ Temperature \_\_\_\_\_
- 2. Dry SCFM \_\_\_\_\_
- 3. CO<sub>2</sub> (vol. %, dry) \_\_\_\_\_
- 4. O<sub>2</sub> (vol. %, dry) \_\_\_\_\_
- 5. Particulate Loading (Grns/DSCF @ 12% CO<sub>2</sub>) \_\_\_\_\_  
(from waste only)
- 6. Opacity (%) \_\_\_\_\_
- 7. Stack
  - a. Height: \_\_\_\_\_
  - b. Diameter: \_\_\_\_\_
  - c. Sampling Ports Included? \_\_\_\_\_

C. System control capabilities, such as burner modulation, interlock features, etc. (describe).

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D. Description and Nature of Guarantee: \_\_\_\_\_

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E. Instrumentation and Controls:

- a. Flame failure controls \_\_\_\_\_
- b. Thermocouple placement \_\_\_\_\_
- c. O<sub>2</sub> and CO/CO<sub>2</sub> sensor placement \_\_\_\_\_
- d. Temperature and oxygen recorder \_\_\_\_\_
- e. Automatic controls \_\_\_\_\_
- f. Feed rate controls \_\_\_\_\_
- g. CEM locations \_\_\_\_\_

F. Drawings to be included with application

- a. Facility plot plan
- b. Equipment layout
- c. Equipment details
- d. Vendor specification sheets