

**VOLATILE ORGANIC COMPOUND CONTROL EQUIPMENT SUPPLEMENTAL FORM**

**Section I - Facility Information**

1.1. Business Name: \_\_\_\_\_ Facility ID: \_\_\_\_\_

1.2. Do you claim confidentiality of data?            + No                            + Yes (attach explanation)

**Section II.A – General Equipment Information**

2.1. Volatile Organic Compound Control Equipment (If control type is not listed, attach narrative and simplified process block diagram) :

- a. + Afterburner/Oxidizer (*Complete Sections II.A and II.B*)  
    + Catalytic      + Thermal      + Hot Rock Bed      + Portable      + Other (specify)
- b. + Adsorber (*Complete Sections II.A and II.C*)
- c. + Condenser (*Complete Sections II.A and II.D*)
- d. + Flare (*Complete Sections II.A and II.B*)

2.2. Equipment Manufacturer: \_\_\_\_\_  
Model No.: \_\_\_\_\_ Serial No. : \_\_\_\_\_

2.3. Maximum Heat Input Rating : (HHV) \_\_\_\_\_ MMBTU/hr or \_\_\_\_\_ KW

2.4. Method of Heating (Check all that apply) :  
a. + Natural Gas    b. + Diesel Oil    c. + Propane/LPG    d. + Digester Gas    e. + Landfill Gas    f. + Other (specify) :

If Digester Gas, Landfill Gas, and/or Other are checked, attach fuel analysis indicating higher heating value (HHV) and Sulfur content.

2.5. Exhaust Blower Capacity (total) : \_\_\_\_\_ acfm      Blower Power \_\_\_\_\_ HP

**Section II.B – Afterburner/Flare Information (Complete this section only if equipment is an afterburner or flare)**

2.6. Combustion Chamber Dimensions:  
Diameter: \_\_\_\_\_ feet \_\_\_\_\_ inches;    Height: \_\_\_\_\_ feet \_\_\_\_\_ inches;    Cross Sectional Area: \_\_\_\_\_ ft<sup>2</sup>

2.7. Vapor Stream flow rate: \_\_\_\_\_ scfm;    % Moisture of Vapor Stream \_\_\_\_\_

2.8. Afterburner/Flare operating temperature: \_\_\_\_\_ °F

2.9. Retention time \_\_\_\_\_ Seconds

**Section II.C – Adsorber Information (Complete this section only if equipment is an adsorber)**

2.10. Dimensions:    Diameter: \_\_\_\_\_ feet \_\_\_\_\_ inches;    Height: \_\_\_\_\_ feet \_\_\_\_\_ inches

2.11. Adsorbent Type: \_\_\_\_\_;    Adsorbent Capacity: \_\_\_\_\_ lbs

2.12. Differential Pressure Across Adsorber: \_\_\_\_\_ inches of water or \_\_\_\_\_ mmHg

2.13. Relative Humidity of Inlet Stream: \_\_\_\_\_ %

2.14. Specify which parts of the adsorber are shut off at any time during operation. Attach reasons and specific details.

2.15. If adsorber has more than one unit, attach description of how units are connected.

2.16. Attach description of means for reactivating adsorbent and procedure used to prevent losses when cleaning or emptying adsorber.

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**Section II.D – Condenser Information (Complete this section only if equipment is a condenser)**

2.17. Condenser Type:

- a. + Packed – Packing Material Type \_\_\_\_\_ and Size \_\_\_\_\_  
b. + Refrigerated      c. + Shell and Tube      d. + Water Cooled

2.18. Dimensions:      Diameter: \_\_\_\_\_ feet \_\_\_\_\_ inches;      Height: \_\_\_\_\_ feet \_\_\_\_\_ inches  
                                         Length: \_\_\_\_\_ feet \_\_\_\_\_ inches;      Width: \_\_\_\_\_ feet \_\_\_\_\_ inches

2.19. Heat transfer area: \_\_\_\_\_ ft<sup>2</sup>

2.20. Heat Removal Capacity: \_\_\_\_\_ BTU/hr

2.21. Coolant Temperature:      Inlet: \_\_\_\_\_ °F      Outlet: \_\_\_\_\_ °F

**Section III – Operating Information (Complete all items below)**

3.1. Attach description of Equipment/ Emission Units vented to control equipment (Indicate PO or Emission Unit No. )

3.2. Attach Process Flow Diagram identifying specific equipment or emission unit vented to air pollution control equipment and source of air pollutant.

3.3. Stack/ Exhaust Emissions Data

- a. Drawings of exhaust system – Attach  
b. Maximum mass emission in lbs/hr and stack concentrations in ppmv of all air pollutants – Attach  
c. Stack Diameter: \_\_\_\_\_ feet \_\_\_\_\_ inches      d. Stack Height above ground level: \_\_\_\_\_ feet \_\_\_\_\_ inches  
e. Exhaust volumetric flow rate: Inlet: \_\_\_\_\_ scfm      Outlet: \_\_\_\_\_ scfm  
f. Temperature:      Inlet: \_\_\_\_\_ °F      Outlet: \_\_\_\_\_ °F

3.4. Capture Efficiency: \_\_\_\_\_ %      Destruction Efficiency: \_\_\_\_\_ %      Attach data to substantiate.

3.5. Maximum Operating Schedule: \_\_\_\_\_ hr/day;      \_\_\_\_\_ day/wk,      \_\_\_\_\_ wk/year

**Section IV - Applicant Certification Statement**

THE ABOVE INFORMATION IS SUBMITTED TO DESCRIBE THE DESIGN AND USE OF THE EQUIPMENT FOR WHICH APPLICATION FOR AUTHORITY TO CONSTRUCT IS BEING MADE.

SIGNATURE OF RESPONSIBLE

OFFICIAL OF FIRM: \_\_\_\_\_ DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

TYPE OR PRINT NAME AND OFFICIAL TITLE OF PERSON SIGNING THIS DATA FORM

NAME: \_\_\_\_\_ TITLE: \_\_\_\_\_