

**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES**

REGISTRATION OF AIR POLLUTION CONTROL EQUIPMENT

Return to: RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR RESOURCES
235 PROMENADE STREET
PROVIDENCE, RI 02908

Section A

1. FULL BUSINESS NAME _____ PHONE _____

2. ADDRESS OF EQUIPMENT LOCATION _____
_____ SIC CODE _____ # EMPLOYEES _____

3. LOCATION ON PREMISES (BLDG., DEPT., AREA, ETC.) _____

4. NATURE OF BUSINESS _____

Section B

1. TYPE OF EQUIPMENT: BAGHOUSE SCRUBBER AFTERBURNER
 SCR CARBON ADSORBER OTHER (SPECIFY)

2. MAKE AND MODEL NO.: _____

3. ESTIMATED STARTING DATE: _____ ESTIMATED COMPLETION DATE: _____

Section C

1. GENERAL DESCRIPTION OF PROCESS FROM WHICH POLLUTANTS ARISE _____

2. PROCESS EQUIPMENT USED IN OPERATION _____

3. OPERATING PROCEDURE: CONTINUOUS _____ HRS/DAY _____ DAYS/WEEK _____ WEEKS/YEAR
 BATCH _____ HRS/BATCH _____ BATCHES/WEEK _____ WEEKS/YEAR

4. LIST THE TYPE AND QUANTITY OF RAW MATERIALS USED PER HOUR OR PER BATCH ON AN ATTACHED SHEET.

Section D

EMISSIONS INFORMATION:

POLLUTANT	EMISSIONS BEFORE CONTROL EQUIPMENT	AFTER

INDICATE METHOD USED TO DETERMINE EMISSIONS _____

<p>Section E</p>	<p>SCRUBBER</p> <p>1. WET:SCRUBBING LIQUID (A) COMPOSITION _____ (B) FLOW RATE (GAL/MIN) _____ (C) INJECTION RATE (PSI) _____ (D)MAKE-UP RATE IF RE-CIRCULATED (GAL/MIN) _____</p> <p>PACKING-IF APPLICABLE (A) TYPE _____ (B) DEPTH OF BED _____ (FEET) (C) PACKING SURFACE _____ (FT²)</p> <p>2. DRY:SCRUBBING REAGENT: _____ USAGE _____ LB/HR. INJECTION RATIO: _____ () MIXING METHOD _____</p> <p>3. PRESSURE DROP ACROSS CONTROL UNIT: _____ INCHES WATER</p>
	<p>BAGHOUSE/FABRIC FILTER</p> <p>1. BAG/FILTER MATERIAL _____ 2. NUMBER OF BAGS _____</p> <p>3. AIR/CLOTH RATIO _____ FEET/MINUTE</p> <p>4. METHOD OF CLEANING: (A) <input type="checkbox"/> SHAKER <input type="checkbox"/> PULSE <input type="checkbox"/> REVERSE AIR <input type="checkbox"/> OTHER-SPECIFY (B) FREQUENCY OF CLEANING _____ (C) IS CLEANING AUTOMATIC OR MANUAL _____</p>
	<p>CARBON ADSORBER</p> <p>1. VOLUME OF EACH CARBON BED _____ (FT³)</p> <p>2. NUMBER OF BEDS _____</p> <p>3. DIAMETER OF EACH BED _____ (FT)</p> <p>4. DEPTH OF EACH BED _____ (FT)</p> <p>5. ADSORPTION CAPACITY OF CARBON (LB/100 LB CARBON) _____</p> <p>6. ADSORPTION CYCLE TIME _____ (HR)</p> <p>7. REGENERATION CYCLE TIME _____ (HR)</p> <p>8. STEAM RATIO (LB STEAM/LB CARBON) _____</p> <p>9. STEAM SOURCE _____</p>
	<p>INCINERATION</p> <p>1. THERMAL AFTERBURNER</p> <p>A. VOLUME OF COMBUSTION CHAMBER _____ (FT³)</p> <p>B. MINIMUM OPERATING TEMPERATURE _____ (°F)</p> <p>C. RESIDENCE TIME _____ (SECONDS)</p> <p>D. EXCESS AIR _____ %</p> <p>2. CATALYTIC INCINERATION</p> <p>A. TYPE OF CATALYST _____</p> <p>B. VOLUME OF CATALYST _____ (FT³)</p> <p>C. SPACE VELOCITY _____ (HR⁻¹)</p> <p>D. CATALYST OPERATING TEMPERATURE _____ (°F)</p> <p>3. BURNER MAKE AND MODEL NO. _____ CAPACITY (BTU/HR) _____</p> <p>4. HEAT RECOVERY: <input type="checkbox"/> YES <input type="checkbox"/> NO TYPE: _____ EFFICIENCY: _____ %</p>

**ADDENDUM TO REGISTRATION OF AIR POLLUTION
CONTROL EQUIPMENT FORM**

**Air Stripper/Soil Vapor Extraction Installations
Required Information**

1. Provide a plot plan to scale showing the location of the air stripper/soil vapor extraction system, locations of extraction wells, distances to all property lines and adjacent land uses (i.e. residential, commercial, etc.)
2. Provide an engineering drawing, dimensioned and to scale, for the air stripper (if applicable) which at a minimum includes the following information:
 - a. Height of the air stripper
 - b. Diameter of the air stripper
 - c. Air flow (CFM)
 - d. Liquid flow (gal/min)
 - e. Packing depth
3. Provide an engineering drawing, dimensioned and to scale, for the air pollution control system. The inlet and outlet ducts of the air pollution control system must be accessible to allow sampling of the exhaust gases. For non-regenerable carbon adsorption systems, records must be kept on-site of the date that the carbon is replaced.
4. Provide documentation ensuring that the air pollution system is capable of reducing the emission of VOCs by at least 95%.
5. For the contaminated liquid, provide the following information:
 - a. Identification of the contaminants to be removed
 - b. Maximum and average concentration of these contaminants in the liquid
 - c. Expected removal efficiency of the contaminants