

# Air Quality Permit Application

## Form 7.0: Control Equipment Information

**FACILITY NAME:** \_\_\_\_\_ **DATE:** \_\_\_\_\_

**DWEE Facility ID:** \_\_\_\_\_ **Emission Point ID:** \_\_\_\_\_

### Section 7.3: Baghouse (Fabric Filter)

**IMPORTANT: READ THE INSTRUCTIONS ACCOMPANYING THIS SECTION BEFORE COMPLETING.**

Do **NOT** use pencil to fill out this application. Please type responses or print using black ink.

#### General Information

1) Control Equipment ID: \_\_\_\_\_ 2) Installation Date: \_\_\_\_\_ ☐ New Unit

3) Control Equipment Name/Description: \_\_\_\_\_

#### 4) Unit Information

List all the emission units that are controlled by the baghouse.  
Attach the manufacturer specifications for each unit as part of Step 14.

Unit ID	Unit Type	Unit Name	Maximum Capacity (include units)	Installation Date	New Unit
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

If more than four units' emissions are controlled by this baghouse, attach additional pages so all emission units are accounted for.

#### 5) Baghouse Information

Attach the manufacturer specifications for the baghouse as part of Step 14.

Manufacturer	Model Name	Model Number	Number of Compartments	Number of Bags per Compartment

Draft (check one):

Induced/Negative ☐ Forced/Positive ☐ Other: ☐ Describe: \_\_\_\_\_

#### 6) Bag (Fabric Filter) Information

Bag (filter) Surface Area (ft<sup>2</sup>): \_\_\_\_\_ Length of Bag (inches): \_\_\_\_\_ Diameter of Bag (inches): \_\_\_\_\_

Air to Bag Ratio: \_\_\_\_\_ Type of Fabric: \_\_\_\_\_

Fabric Weight (oz): \_\_\_\_\_ Fabric Weave: \_\_\_\_\_ Fabric Finish: \_\_\_\_\_

Fabric Properties (check all that apply):

Moisture Binding ☐ Chemical Resistivity ☐ Other: ☐ Describe: \_\_\_\_\_

If you do not have and cannot obtain some of the bag information, please state it as unknown.

#### 7) Stack Information ☐ N/A

Height	Top Inside Diameter	Stack Discharge	Exit Velocity of Gas	Exit Temperature of Gas
ft	ft	<input type="checkbox"/> Horizontal <input type="checkbox"/> Vertical <input type="checkbox"/> Vertical with Rain Cap	m/s	°K

#### 8) Baghouse Temperature Information

Maximum Design Temperature Capability: \_\_\_\_\_ Degrees Fahrenheit ☐ Degrees Celsius ☐

Inlet Temperature	Maximum: _____	Degrees Fahrenheit <input type="checkbox"/> Degrees Celsius <input type="checkbox"/>	Minimum: _____	Degrees Fahrenheit <input type="checkbox"/> Degrees Celsius <input type="checkbox"/>
Outlet Temperature	Maximum: _____	Degrees Fahrenheit <input type="checkbox"/> Degrees Celsius <input type="checkbox"/>	Minimum: _____	Degrees Fahrenheit <input type="checkbox"/> Degrees Celsius <input type="checkbox"/>

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### Section 7.3: Baghouse (Fabric Filter; continued)

<b>9) Baghouse Operational and Monitoring Information</b>		
Maximum Design Air Flow (acfm):	Maximum Operating Gas Exhaust Flow (acfm):	
Maximum Operating Pressure Drop (inches water):	Minimum Operating Pressure Drop (inches water):	
Maximum Inlet Gas Stream Moisture (%):		
Monitoring (check one and give a brief description):		
Continuous Monitoring: <input type="checkbox"/>	Describe: _____	
Other Monitoring: <input type="checkbox"/>	Describe: _____	
<b>10) Baghouse Maintenance Information</b>		
Method for Determining When to Clean Bag:		
Method of Bag Cleaning (check all that apply):		
Automatic <input type="checkbox"/>	Mechanical Shaker <input type="checkbox"/>	Simple Bag Collapse <input type="checkbox"/>
Manual <input type="checkbox"/>	Reverse Flow <input type="checkbox"/>	Ring Bag Collapse <input type="checkbox"/>
Timed <input type="checkbox"/>	Air Pulse <input type="checkbox"/>	Sonic <input type="checkbox"/>
Other <input type="checkbox"/>	Describe: _____	
<b>11) Control Information</b>		
Uncontrolled Emission Rate (lb/hr):	Controlled Emission Rate (lb/hr):	
Minimum Size of Particles Collected:	Loading Rate (include units):	
Pollutant:	Capture Efficiency (%):	
Pollutant:	Capture Efficiency (%):	
Pollutant:	Capture Efficiency (%):	
Test or Manufacturer's Data Available: Yes <input type="checkbox"/> No <input type="checkbox"/>		Test or Manufacturer's Data Attached: Yes <input type="checkbox"/> No <input type="checkbox"/>
<b>12) Particle Size Distribution</b>		
If known, enter the particle size distribution:		
Size (microns)	Weight (% of total)	Cumulative (%)
<b>13) Attach Potential to Emit Calculations</b>		
<input type="checkbox"/>		
<b>14) Attach Manufacturer Specifications for Each Emission Unit Listed in #4, and the Baghouse listed in #5</b>		
<input type="checkbox"/>		
<b>15) Additional Information Attached?</b>		
<input type="checkbox"/> YES <input type="checkbox"/> NO		

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Complete the following **ONLY** if completing this Section as Part of an Operating Permit Application

<b>16) Actual Operating Information</b>					
Provide the operating hours of this baghouse for the past five years (past year if new unit):					
Year					
Hours Operated					
<b>17) Attach Actual Emission Calculations</b>				<input type="checkbox"/>	
<b>18) Additional Information Attached?</b>				<input type="checkbox"/> YES <input type="checkbox"/> NO	