

**Major Source Operating Permit Application
Control Equipment – Baghouse/Fabric Filters**

Form 70-18

1	Facility Name		
2	Equipment name and identification #		
3	Stack ID or flow diagram point identification		
4	Name of manufacturer		
5	Model number		
6	Cost of baghouse		
7	Date of installation		
	Date of manufacture		
8	Does baghouse contain pre-cleaning equipment?	<input type="checkbox"/> Yes (describe): _____ <input type="checkbox"/> No	
9	A. Volume of gas discharged from baghouse at dry standard conditions	dscfm	
	B. Total cloth area of baghouse	Ft ²	
	C. Air to cloth ratio (A/B)	Ft/min	
10	Pressure drop across baghouse		
	Stated by manufacturer	Inches of water	
	Measured (Actual)	Inches of water	
	Calculated	Inches of water	
11	Type of fabric filters used in baghouse		
	Operating temperature	Manufacturer's recommended	°F
		Normal	°F
		Maximum	°F
12	Indicate which of the following are components of this baghouse	<input type="checkbox"/> Flow rate instrumentation <input type="checkbox"/> Dew point indicator <input type="checkbox"/> Heat exchanger <input type="checkbox"/> Transmissometer <input type="checkbox"/> Inlet gas temperature instrumentation <input type="checkbox"/> Differential pressure instrumentation <input type="checkbox"/> Evaporative cooler <input type="checkbox"/> Other (describe)	
13	Operation of baghouse	<input type="checkbox"/> Continuous <input type="checkbox"/> Intermittent	
	Baghouse inlet (dirty gas)	<input type="checkbox"/> Bottom feed <input type="checkbox"/> Top feed <input type="checkbox"/> Tangential <input type="checkbox"/> Other (describe) <input type="checkbox"/> External filtration	
	Shape of baghouse	<input type="checkbox"/> Rectangular <input type="checkbox"/> Cubical <input type="checkbox"/> Other (describe) <input type="checkbox"/> Cylindrical	
	Does baghouse have a wear resistant plate?	<input type="checkbox"/> Yes <input type="checkbox"/> No	
	Size of baghouse (volume)	Ft ³	
	Shell material		
14	Baghouse cleaning method (check one)		
	A. Fabric flexing	<input type="checkbox"/> Mechanical shaking and rapping <input type="checkbox"/> Collapse cleaning <input type="checkbox"/> Sonic cleaning <input type="checkbox"/> Pulse (pressure) jet cleaning	
	B. Reverse air cleaning	<input type="checkbox"/> Reverse jet <input type="checkbox"/> Reverse flow <input type="checkbox"/> Manual cleaning	
15	Filter configuration	<input type="checkbox"/> Panels <input type="checkbox"/> Multiple tube bag <input type="checkbox"/> Circular cross-section tube <input type="checkbox"/> Other (describe)	
	Filter fabric	<input type="checkbox"/> Felted <input type="checkbox"/> Woven	
	Filter area	Ft ²	
	Number of filters per compartment		
	Number of compartments		

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16	Particle size distribution in microns (μ)					
	Particle type(s)					
	Particle size	0-5 μ	5-10 μ	10-20 μ	20-44 μ	Greater than 44 μ
	Give % by weight					
17	Dust disposal method	<input type="checkbox"/> Automatic (screw conveyor, etc.)		<input type="checkbox"/> Manual		
	Describe dust disposal method					
	How often are hoppers emptied?	Every _____ hours				
	Is disposed material wetted before transport?	<input type="checkbox"/> Yes <input type="checkbox"/> No				
	Site of disposal					
18	Particulate control efficiency					
	A. Manufacturer's stated efficiency					
	B. Required efficiency					
	C. Operation efficiency (performance test)					
	D. Efficiency for particle size					
	Give efficiency for particle size	0-5 μ	5-10 μ	10-20 μ	20-44 μ	Greater than 44 μ
	Give % by weight					
19	Location of the fan	<input type="checkbox"/> Clean air side (pull through)		<input type="checkbox"/> Dirty air side (push through)		
	Type fan (check one)	<input type="checkbox"/> Centrifugal (radial flow)		<input type="checkbox"/> Axial flow		
	Type blade (check one)	<input type="checkbox"/> Forward curve	<input type="checkbox"/> Straight	<input type="checkbox"/> Tube-axial	<input type="checkbox"/> Vane-axial	
		<input type="checkbox"/> Backward curve	<input type="checkbox"/> Propeller			
20	Fan data					
	Diameter		Inches	Braking horsepower	BHP	
	Speed		RPM	Inlet area	Ft ²	
	Volume		CFM @ STP	Outlet area	Ft ²	
	Static pressure		Inches WC	Motor horsepower	HP	
	Submitted copies of manufacturer's multirating tables	<input type="checkbox"/> Yes		<input type="checkbox"/> No		
For compressor	<input type="checkbox"/> Positive displacement	<input type="checkbox"/> Dynamic	<input type="checkbox"/> Reciprocating			
21	Page Number	Revision Number		Date of Revision		

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