

Major Source Operating Permit Application
Control Equipment – Miscellaneous – General Control Equipment (GCE)

Form 70-11

1	Facility name				
2	Equipment name and identification #:				
3	GCE name				
4	Name of manufacturer				
5	Model number				
6	Cost of GCE				
7	Date of manufacture				
8	Date of installation				
9	Does GCE contain pre-cleaning equipment?	<input type="checkbox"/> Yes	If yes, what type? (File appropriate form for control equipment)		
		<input type="checkbox"/> No			
10	Volume of gas discharged from GCE at dry standard conditions				Dscfm
11	Indicate which of the following are components of this GCE	<input type="checkbox"/> Flow rate instrumentation	<input type="checkbox"/> Differential Pressure Instrumentation		
		<input type="checkbox"/> Dew point indicator	<input type="checkbox"/> Other (specify)		
		<input type="checkbox"/> Inlet gas temperature indicator			
12	Operation of GCE	<input type="checkbox"/> Continuous	<input type="checkbox"/> Intermittent	<input type="checkbox"/> Periodic	
13	GCE inlet (dirty gas)	<input type="checkbox"/> Bottom feed	<input type="checkbox"/> Top feed	<input type="checkbox"/> Other	
14	Shape of GCE (Describe)				
	Size of GCE	Volume	Height	Length	Width
		Cubic ft	Feet	Feet	Feet
15	Describe cleaning method				
16	Describe how emissions are collected				
17	Give total size of collection surface in square feet (if applicable)				
	Give dimensions of collection surface (if applicable)	Height	Length	Width	Diameter
		Feet	Feet	Feet	Feet
	Collection surface material(s)				

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18	Particle size distribution in microns (μ)						
	Particle type(s)						
	Particle size Give percentage by weight	0-5 μ	5-10 μ	10-20 μ	20-44 μ	Greater than 44 μ	
	Temperature of inlet gas ($^{\circ}$ F)						
	Moisture content (percentage)						
	Dust concentration (lbs/cubic foot)						
	Inlet velocity (feet/second)						
Average particulate size (microns)							
19	Dust Disposal Method	<input type="checkbox"/> Automatic		<input type="checkbox"/> Manual			
	Describe						
	How often is the GCE cleaned?	every		hours			
	Site of disposal						
20	Particulate Control Efficiency						
	Manufacturer's stated efficiency (%)						
	Required efficiency (%)						
	Operating efficiency (performance testing) (%)						
	Efficiency for particle size Give percentage by weight	0-5 μ	5-10 μ	10-20 μ	20-44 μ	Greater than 44 μ	
21	Location of 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		<input type="checkbox"/> Compressor	
	Type blade (check one)	<input type="checkbox"/> Forward curve			<input type="checkbox"/> Backward curve		
		<input type="checkbox"/> Straight			<input type="checkbox"/> Propeller		
		<input type="checkbox"/> Tube-axial		<input type="checkbox"/> Vane-axial			
22	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		
	For Compressor	<input type="checkbox"/> Positive Displacement		<input type="checkbox"/> Dynamic	<input type="checkbox"/> Reciprocating		
23	Drawings of all equipment should be submitted with each application.						
24	Page Number	Revision Number			Date of Revision		

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