ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AIR DIVISION

INSTRUCTIONS FOR COMPLETING ADEM FORM 110 APPLICATION FOR AIR POLLUTION CONTROL DEVICE

All air pollution control devices which are connected in series to one process or one group of processes, whether existing or to be constructed, should be described on this form.

All questions which are applicable should be answered. Vendors' equipment specifications may be attached in order to adequately complete this form. If an item does not apply (except for Item 12), type "N/A" in that block.

Item 1: Self-explanatory

Item 2: Check all devices which are to be connected to a unit or group of units. For example, if emissions from a foundry cupola are conducted through a gas-fired afterburner, and then a quench chamber, a venturi scrubber, a cyclonic separator, the fan and stack to the atmosphere, check Afterburner, Wet Scrubber, and Other. Write "Venturi" in the space for kind of Wet scrubber and "Quench Chamber" and "Cyclonic Separator" in the space for Other.

Item 3: Self-explanatory

Item 4: Self-explanatory

Item 5: Columns are provided for 3 types of pollutants emitted by a source or sources. In most cases no more than 3 types of pollutants are regulated by the State for a particular type of source. These emission parameters for the control device should coincide with the maximum operating capacity, the greatest emission rate or the most difficult control conditions for the source. The manufacturer may not guarantee every emission parameter, but the Mass Emission Rate Required by Regulation must be stated. The Department must be assured that the owner or operator has a clear understanding of the task required of the equipment.

Item 6: Outlet conditions should be stated for those conditions within a stack or vent or at the exit to a stack or a vent. Intermediate locations may be labeled by the applicant, such as "After Cyclone" or "Before Scrubber". The velocity should be calculated based upon the actual volumetric flow.

Item 7: Self-explanatory with the exception of UTM Coordinates, which means Universal Transverse Mercator Coordinates (for Alabama, N-S is between 3337.000km-3875.000km and E-W is between 362.000km-709.000km; Zone 16) and GEP Stack Height, which means Good Engineering Practice (GEP) stack height as defined in ADEM Administrative Code r. 335-3-14-.03(2)(a)5., 335-3-15-.02(9)(a)5., or 335-3-16-.02(10)(a)5., as applicable. This space should only be used if a GEP analysis has been performed or if the stack is a grandfathered stack, thus yielding a GEP stack height equivalent to "Height above grade."

Item 8: A clear diagram must be presented, especially for proposed control systems with many elements. Additional sheets may be used, if necessary.

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT AIR DIVISION

INSTRUCTIONS FOR COMPLETING ADEM FORM 110 APPLICATION FOR AIR POLLUTION CONTROL DEVICE

(Continued)

- Item 9: Including further details with the initial application will help to expedite the issuance of a permit. Certain details may be required by the Department in order to conduct a valid review of a proposed system.
- Item 10: Unusual features, such as fluidized beds, turning vanes, new designs, etc. should be illustrated here.
- Item 11: Any pertinent facts not requested elsewhere are to be listed here for most devices. A number of operating parameters will be desired for complex or unusual devices, such as electrostatic precipitators, baghouses and adsorbers.
- Item 12: This item must be completed. Give conditions under which the by-pass will be used. If no by-pass is to be installed, type "There will be no by-pass".
- Item 13: Space is provided for two types of solid waste and two types of liquid waste. Attach additional sheets, if necessary.

Volume of solid waste should be stated in pounds per day or tons per week. Volume of liquid waste should be stated in gallons per day.



ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

PERMIT APPLICATION

FOR

AIR POLLUTION CONTROL DEVICE

- (ADEM Use Only)			
Name of facility or organization			
2. Type of pollution control device: (if more that submitted for each specific device.)	in one, check each;	however, separate	forms are to be
☐Settling chamber ☐Elect	rostatic precipitatoı	-	
☐Afterburner ☐Bagh	ouse		
☐Cyclone ☐Multio	clone		
☐ Absorber ☐ Adso	rber		
☐Condenser ☐Wet S	Suppression		
Wet scrubber (kind):			
Stage 1 - Vapor balance (type):			
Other (describe):			
3. Control device manufacturer's information:			
		Model No.	
4. Emission source to which device is installed			
	or is to be installed:		ı
4. Emission source to which device is installed	or is to be installed:		l Pollutant #3
4. Emission source to which device is installed	or is to be installed:	Pollutants Removed	
4. Emission source to which device is installed	or is to be installed:	Pollutants Removed	
Emission source to which device is installed Emission parameters:	or is to be installed:	Pollutants Removed	
4. Emission source to which device is installed 5. Emission parameters: Mass emission rate (#/hr)	or is to be installed:	Pollutants Removed	
Emission source to which device is installed	or is to be installed:	Pollutants Removed	
4. Emission source to which device is installed 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled	or is to be installed:	Pollutants Removed	
4. Emission source to which device is installed 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled	or is to be installed:	Pollutants Removed	
4. Emission source to which device is installed 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled	or is to be installed:	Pollutants Removed	
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4. Emission source to which device is installed 5. Emission parameters: Mass emission rate (#/hr) Uncontrolled	or is to be installed:	Pollutants Removed	

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6.	Gas	conditions:
•	$-\alpha$	COHAILICHS.

	Inlet	Intermediate Locations	Outlet
Volume (SDCFM, 68°f, 29.92" hg)			
(ACFM, existing conditions)			
Temperature (°F)			
Velocity (ft/sec)			
Percent moisture			

Percent moisture				
Pressure drop across d	evice:	(inche	es H₂0)	
Stack dimensions:				
UTM Coordinate (E-W)		(km)	UTM Coordinate (N-S)	(km)
Latitude		(LAT)	Longitude	(LONG)
Height above grade		(feet)	Gas temperature at exit	(°F)
Inside diameter at exit (round)		(feet)	Gas Velocity	(Ft/Sec)
Inside area at exit (not round)		(sq. feet)	Volume of gas discharged	(ACFM)
Base Elevation		(feet)	GEP Stack Height	(feet)
		exits for collec	n process, each control device, leted pollutants, and location of sa cicle size distribution report	
fan or blower, each emis Enclosed are:	ssion point,	exits for collect	cted pollutants, and location of sa	
fan or blower, each emis Enclosed are: Blueprints	ssion point, ture	exits for collect	cted pollutants, and location of sa	
fan or blower, each emis Enclosed are: Blueprints Manufacturer's literat Emissions test of exis	ssion point, ture sting installa	exits for collect ☐Part ☐Size ation ☐Fan	cted pollutants, and location of sa cicle size distribution report e-efficiency curves	
fan or blower, each emis Enclosed are: Blueprints Manufacturer's literated Emissions test of existed Other	ssion point, ture sting installa	exits for collect ☐Part ☐Size ation ☐Fan	cted pollutants, and location of sacicle size distribution report e-efficiency curves curves	ampling ports.
fan or blower, each emis Enclosed are: Blueprints Manufacturer's literated Emissions test of existed Countries Other If the pollution control descriptions. List below the important	ture sting installa	exits for collection Part Size ation Fan nusual design, parameters for	cted pollutants, and location of sa cicle size distribution report e-efficiency curves curves	evice.
fan or blower, each emis Enclosed are: Blueprints Manufacturer's literated Emissions test of existed Countries Other If the pollution control descriptions. List below the important	ture sting installa	exits for collection Part Size ation Fan nusual design, parameters for	cted pollutants, and location of sacicle size distribution report e-efficiency curves curves please provide a sketch of the detthe device. (For example: air/clo	evice.
fan or blower, each emis Enclosed are: Blueprints Manufacturer's literated Emissions test of existed Countries Other If the pollution control descriptions. List below the important	ture sting installa	exits for collection Part Size ation Fan nusual design, parameters for	cted pollutants, and location of sacicle size distribution report e-efficiency curves curves please provide a sketch of the detthe device. (For example: air/clo	evice.
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13. Disposal of collected air pollutants:					
	Solid waste	Solid waste	Liquid waste	Liquid waste	
Volume					
Composition					
Is waste hazardous?					
Method of disposal					
Final destination					

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