

**STATE OF MISSISSIPPI
DEPT. OF ENVIRONMENTAL QUALITY
OFFICE OF POLLUTION CONTROL
P.O. BOX 2261
JACKSON, MS 39225-2261
(601) 961-5171**

**APPLICATION FOR
AIR POLLUTION CONTROL PERMIT
TO CONSTRUCT AND/OR OPERATE
AIR EMISSIONS EQUIPMENT**

TYPE OF PERMIT

- New Source**
 Modification
 Renewal of Operating Permit
 Existing Source Operating Permit

Name _____

Location: City _____ **County** _____
Facility No. (if known) _____

**APPLICATION FOR PERMIT TO CONSTRUCT
AND/OR OPERATE AIR EMISSIONS EQUIPMENT
GENERAL FORM**

1. Name, Address & Contact for the Owner/Applicant

A. Name _____

B. Mailing Address

1. Street Address or P.O. Box _____

2. City _____ 3. State _____

4. Zip Code _____ 5. Telephone No. () _____

C. Contact

1. Name _____ 2. Title _____

2. Name, Address, Location and Contact for the Facility

A. Name _____

B. Mailing Address

1. Street Address or P.O. Box _____

2. City _____ 3. State _____

4. Zip Code _____ 5. Telephone No. () _____

C. Site Location

1. Street _____

2. City _____ 3. County _____

4. State _____ 5. Zip Code _____

6. Telephone No. () _____

Note: If the facility is located outside the City limits, please attach a sketch or description showing the approximate location to this application.

D. Contact

1. Name _____ 2. Title _____

3. SIC Code _____

4. Number of Employees _____

5. Principal Process(es) _____

6. Principal Product(s) and maximum amount produced per day _____

7. Principal Raw Materials and maximum amount consumed per day _____

8. Operating Schedule

- A. Specify maximum hours per day the operation will occur: _____
- B. Specify maximum days per week the operation will occur: _____
- C. Specify maximum weeks per year the operation will occur: _____
- D. Specify the months the operation will occur: _____

9. Only if this application is for Operating Permit renewal, has the facility been modified in any way (including production rate, fuel, and/or raw material changes) during period covered by the Operating Permit? ___Yes ___No If yes, give year(s) in which modification(s) occurred and explain.

10. If after August 7, 1977, provide the date construction commenced. _____

11. If after August 7, 1977, provide the date operation began. _____

12. Please list the dates of any modifications or emissions increases since August 7, 1977. _____

13. EACH APPLICATION MUST BE SIGNED BY THE APPLICANT.

If the applicant is a corporation, it must be signed by a corporate officer as defined in Regulation APC-S-2. If the applicant is a partnership, it must be signed by a partner with authority to bind the partnership. In the case of a governmental agency, the application must be signed by the facility manager or senior staff officer responsible for the installation's or facility's environmental compliance.

I certify that I am familiar with the information contained in the application and that to the best of my knowledge and belief such information is true, complete, and accurate, and that, as an appropriate representative of the applicant, my signature shall constitute an agreement that the applicant assumes the responsibility for any alterations, additions or changes in operation that may be necessary to achieve and maintain compliance with all applicable Rules and Regulations.

Printed Name of Person Signing

Title

Date Application Signed

Signature of Applicant

PLEASE COMPLETE THE FOLLOWING PAGES WHERE APPLICABLE

GENERAL INFORMATION & INSTRUCTIONS

- 1) The application is designed to obtain information to allow evaluation of a number of different types of air emission facilities. If the space provided in the application is not adequate or does not fit your air emissions equipment, you may use a separate sheet(s) to provide the necessary information.

- 2) Permits will be valid only for those operations, pollutants, and pollutant emission rates identified in the application. As a minimum, the application must identify the following:
 - A. All operations or equipment having air emissions. For each, specify the maximum schedule, the maximum operating rate and the expected operating rate, if different from the maximum.

 - B. Emission rates (in units of the applicable emission standard as well as lbs/hr and tons/year) for each air pollutant subject to regulation under the Federal Act that can be reasonably expected to be emitted from each independent emission point. The following emission rates shall be provided in the EMISSIONS SUMMARY SECTION:
 1. Potential Uncontrolled Emissions - this emission rate is defined in Regulation APC-S-2, amended December 9, 1993.

 2. Proposed Emission Rate - the maximum emission rate at which the applicant proposes to operate the emission point.

EMISSION RATE CALCULATIONS MUST BE PROVIDED.

- C. The exhaust or stack parameters for each emission source (height, velocity, diameter, and temperature) shall be provided in the EMISSIONS SUMMARY SECTION.

**APPLICATION FOR AIR POLLUTION CONTROL PERMIT
ADDITIONAL INFORMATION REQUIRED FOR MODIFICATIONS,
EXISTING SOURCE OPERATING PERMITS,
AND/OR APPROVAL TO CONSTRUCT**

The following additional information must be submitted in duplicate. Failure to submit any of the additional information or to conform to the instructions may result in initial rejection of the application.

- 1) Design Calculations and Specifications - all data and calculations used in selecting or designing process and control equipment.

- 2) Site Drawings - the drawing(s) or sketch(es) must be to scale and show at least the following:
 - A. The property involved with dimensions, clearly defining restricted entry boundaries and, if different, the total property boundaries.

 - B. Location and identification of all existing and/or proposed buildings, structures, and/or equipment, including points of discharge of air contaminants to the atmosphere, drawn to scale and in proper orientation.

 - C. The dimensions (length, width) of all buildings, structures, and/or equipment, including emission points.

 - D. The elevation of all buildings, structures, and/or equipment, including emission points, showing heights, grade baseline, and grade baseline height above mean sea level.

 - E. Primary compass direction indicator.

- F. Location of streets and all adjacent properties. Show location of all buildings outside the property that are within 150 feet of the equipment involved in the application. Identify all such buildings (as a residence, apartment, warehouse, etc.), specifying number of stories or approximate height, and indicate the prevailing wind direction.
- 3) Construction Drawings (See Note Below) - an assembly drawing, dimensioned and to scale, in as many sections as are needed to show clearly the design and operation of the equipment and the means by which air contaminants are controlled. The following must be shown:
- A. Size and shape of equipment. Show exterior and interior dimensions and features.
 - B. Locations, sizes, and shape details of all features which may affect the production, collection, conveying or control of air contaminants of any kind; location, size and shape details concerning all materials handling equipment.

NOTE: Structural design calculations and details are not required.

- 4) Description of Process and Control Equipment - a written description of each process to be carried out in the facility and the function of the equipment used in the process. The descriptions must be complete and particular attention must be given to explaining all stages in the process where the discharge of any materials might contribute in any way to air pollution. Control procedures must be described in sufficient detail to show the extent of control of air contaminants anticipated in the design, specifying the expected efficiencies of the capture systems and the control devices. All obtainable data must be supplied concerning the nature, volumes, particle size, weights, chemical composition and concentrations of all types of air contaminants.
- 5) Block Flow Diagram - a drawing showing the steps of the process and the flow of materials through the process and any control devices.

Additional information may be required as is necessary to evaluate the design adequacy of the facility or to comply with the requirements of the Prevention of Significant Deterioration (PSD) regulations.

ALL ENGINEERING PLANS AND SPECIFICATIONS MUST BEAR THE SIGNATURE, REGISTRATION NUMBER, AND SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF MISSISSIPPI.

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**EMISSIONS SUMMARY SECTION
PART III**

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
75070	Acetaldehyde				
60355	Acetamide				
75058	Acetonitrile				
98862	Acetophenone				
53963	Acetylaminofluorene(2)				
107028	Acrolein				
79061	Acrylamide				
79107	Acrylic Acid				
107131	Acrylonitrile				
107051	Allyl Chloride				
92671	Aminodipheyl(4)				
62533	Aniline				
90040	Anisidine(o)				
7440360	Antimony Compounds				
7440382	Arsenic Compounds (inorganic including arsine)				
1332214	Asbestos				
71432	Benzene				
92875	Benzidine				
98077	Benzotrichloride				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
100447	Benzyl Chloride				
7440417	Beryllium Compounds				
192524	Biphenyl				
117817	Bis(2-ethylhexyl)phthalate (DEHP) (Dioctyl Phthalate)				
542881	Bis(chloromethyl)ether				
75252	Bromoform				
106990	Butadiene(1,3)				
7440439	Cadmium Compounds				
156627	Calcium Cyanamide				
105602	Caprolactam				
133062	Captan				
63252	Carbaryl				
75150	Carbon Disulfide				
56235	Carbon Tetrachloride				
463581	Carbonyl Sulfide				
120809	Catechol				
133904	Chloramben				
57749	Chlordane				
7782505	Chlorine				
79118	Chloroacetic Acid				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
532274	Chloroacetophenone(2)				
108907	Chlorobenzene				
510156	Chlorobenzinate				
67663	Chloroform				
107302	Chloromethyl methyl ether				
126998	Chloroprene (Neoprene; 2-Chloro-1,3-Butadiene)				
7440473	Chromium Compounds (IV)				
10210681	Cobalt Carbonyl (as Co)				
7440484	Cobalt Compounds (metal, dust, and fumes as Co)				
16842038	Cobalt Hydrocarbonyl (as Co)				
65996818A	Coke Oven Emissions				
1319773	Cresols/Cresylic acid				
108394	Cresol(m)				
95487	Cresol(o)				
106445	Cresol(p)				
98828	Cumene (Isopropylbenzene)				
---	Cyanide Compounds (NOTE # 1)				
3547044	DDE				
334883	Diazomethane				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
132649	Dibenzofurans				
96128	Dibromo-3-chloropropane(1,2)				
84742	Dibutylphthalate				
106467	Dichlorobenzene(1,4)(p)				
91941	Dichlorobenzidene(3,3)				
111444	Dichloroethyl ether (Bis(2-chloroethyl)ether)				
542756	Dichloropropene(1,3)				
62737	Dichlorvos				
111422	Diethanolamine				
121697	Diethyl aniline (N,N) (dimethylaniline (N,N))				
64675	Diethyl Sulfate				
119904	Dimethoxybenzidine(3,3')				
60117	4 - Dimethyl aminoazobenzene				
119937	Dimethyl benzidine (3,3')				
79447	Dimethyl carbamoyl chloride				
68122	Dimethyl formamide				
57147	Dimethyl hydrazine(1,1)				
131113	Dimethyl phthalate				
77781	Dimethyl sulfate				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
534521	Dinitro-o-cresol(4,6), and salts				
51285	Dinitrophenol(2,4)				
121142	Dinitrotoluene(2,4)				
123911	Dioxane(1,4) (1,4-diethyleneoxide)				
122667	Diphenylhydrazine(1,2)				
94757	d(2,4), salts and esters				
106898	Epichlorohydrin (Chloro-2,3-epoxypropane(1))				
106887	Epoxybutane(1,2) (1,2-Butylene oxide)				
140885	Ethyl acrylate				
100414	Ethyl benzene				
51796	Ethyl carbamate (Urethane)				
75003	Ethyl chloride (Chloroethane)				
106934	Ethylene dibromide (1,2-Dibromoethane)				
107062	Ethylene dichloride (1,2-Dichloroethane)				
107211	Ethylene glycol				
151564	Ethylene imine (Azridine)				
75218	Ethylene oxide				
96457	Ethylene thiourea				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
75343	Ethylidene dichloride (1,1-Dichloroethane)				
50000	Formaldehyde				
---	Glycol ethers (NOTE #2)				
76448	Heptachlor				
118741	Hexachlorobenzene				
87683	Hexachlorocyclopentadiene				
67721	Hexachloroethane				
822060	Hexamethylene-1,6-diisocyanate				
680319	Hexamethylphosphoramide				
110543	Hexane				
302012	Hydrazine				
7647010	Hydrochloric acid				
7664393	Hydrogen Fluoride (Hydrofluoric acid)				
123319	Hydroquinone				
78591	Isophorone				
7439921	Lead Compounds				
58899	Lindane (all isomers)				
108316	Maleic anhydride				
7439965	Manganese Compounds				
7439976	Mercury Compounds				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
67561	Methanol				
72435	Methoxychlor				
74839	Methyl bromide (Bromomethane)				
74873	Methyl chloride (Chloromethane)				
71556	Methyl chloroform (1,1,1-Trichloroethane)				
78933	Methyl ethyl ketone (2-Butanone) (MEK)				
60344	Methyl hydrazine				
74884	Methyl iodide (Iodomethane)				
108101	Methyl isobutyl ketone (Hexone)				
624839	Methyl isocyanate				
80626	Methyl methacrylate				
1634044	Methyl tert butyl ether				
101144	Methylene bis(2-chloroaniline)(4,4) (MOCA)				
75092	Methylene chloride (Dichloromethane)				
101688	Methylene diphenyl diisocyanate (MDI)				
101779	Methylenedianiline(4,4')				
---	Mineral fibers (NOTE #3)				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
91203	Naphthalene				
7440020	Nickel Compounds				
7440020	Nickel, refinery dust				
12035722	Nickel, subsulfide				
98953	Nitrobenzene				
92933	Nitrodiphenyl(4)				
100027	Nitrophenol(4)				
79469	Nitropropane(2)				
62759	Nitrosodimethylamine(N) (Dimethylnitrosoamine)				
59892	Nitrosomorpholine(N)				
684935	Nitroso-N-methylurea(N)				
56382	Parathion				
82688	Pentachloronitrobenzene (Quintobenzene)				
87865	Pentachlorophenol				
108952	Phenol				
106503	Phenylenediamine(p)				
75445	Phosgene				
7803512	Phosphine				
7723140	Phosphorus				
85449	Phthalic anhydride				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
1336363	Polychlorinated biphenyls (Arochlors)				
---	Polycyclic Organic Matter (NOTE #5)				
1120714	Propane sultone(1,3)				
57578	Propiolactone(beta)				
123386	Propionaldehyde				
114261	Propoxur (Baygon)				
78875	Propylene dichloride (1,2 dichloropropane)				
75558	Propylene imine(1,2) (2-methyl aziridine)				
75569	Propylene oxide				
91225	Quinoline				
106514	Quinone (1,4-Cyclohexadienedione)				
---	Radionuclides (including radon) (NOTE #4)				
7782492	Selenium Compounds				
100425	Styrene				
96093	Styrene oxide				
1746016	Tetrachlorodibenzo-p-dioxin(2,3,7,8) (TCDD) (Dioxin)				
79345	Tetrachloroethane(1,1,2,2)				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
127184	Tetrachloroethylene (Perchloroethylene)				
7550450	Titanium Tetrachloride				
108883	Toluene				
95807	Toluene diamine(2,4) (2,4-diaminotoluene)				
584849	Toluene diisocyanate(2,4)				
95534	Toluidine(o)				
8001352	Toxaphene (Chlorinated camphene)				
120821	Trichlorobenzene(1,2,4)				
79005	Trichloroethane(1,1,2)				
79016	Trichloroethylene				
95954	Trichlorophenol(2,4,5)				
88062	Trichlorophenol(2,4,6)				
121448	Triethylamine				
1582098	Trifluralin				
540841	Trimethylpentane(2,2,4)				
75014	Vinyl Chloride				
108054	Vinyl Acetate				
593602	Vinyl Bromide				
75354	Vinylidene chloride (1,1-Dichloroethylene)				

CAS NO.	HAP	Proposed Emission Rate		Potential Uncontrolled Emission Rate	
		lbs/hr	TPY	lbs/hr	TPY
1330207	Xylenes (mixed)				
108383	Xylene(m)				
95476	Xylene(o)				
106423	Xylene(p)				

NOTE # 1: X'CN where X = H' or any other group where a formal dissociation may occur, for example: KCN or Ca(CN)2.

NOTE # 2: Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH2CH2)n-OR' where:
n = 1,2,3
R = alkyl or aryl groups
R' = R,H, or group which, when removed, yield glycols ethers with the structure: R-(OCH2CH2)n-OH. Polymers are excluded from the glycol category

NOTE # 3: Includes glass microfibers, glass wool fibers, rock wool fibers, and slag wool fibers, each characterized as "respirable" (fiber diameter less than 3.5 micrometers) and possessing an aspect ratio (fiber length divided by fiber diameter) greater than 3.

NOTE # 4: A type of atom which spontaneously undergoes radioactive decay.

NOTE # 5: Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 Celsius.

APPLICATION SUMMARY SECTION

I. Indicate below which sections have been completed as part of this application. Where applicable, also indicate the number of each section completed.

Administrative Information	_____
Emission Summary Section	
Part I	_____
Part II	_____
Part III	_____
Fuel Burning Equipment	_____
Manufacturing Process Operations	_____
Refuse Disposal	_____
Tank Section	_____
Incineration Section	_____
Asphalt Plant Section	_____
Concrete Plant Section	_____
Air Pollution Control Devices	_____
Baghouse	_____
Cyclone	_____
Adsorption	_____
Afterburner	_____
Scrubber	_____
Electrostatic Precipitator	_____
Other Air Pollution Control Equipment/Devices	_____

II. Please list any other attachments.

FOR ALL APPLICANTS

**FUEL BURNING EQUIPMENT
(Except for Refuse Disposal)**

This form has 3 pages; each is a continuation of the equipment information from the page before. Please fill in as completely as possible, listing all fuel burning equipment. Reasons should be given explaining any data not filled in.

PAGE 1

1. Fill in company name and address, plus year for which data is given (if existing facility) at top of page. Use data for most recent calendar year available.
2. Reference Number. Use an identifying number for each boiler, furnace, kiln, etc., and use the same reference number on each of the three pages to identify information for the same unit.
3. Manufacturer and Model Number. Nameplate data for boiler, furnace, kiln, etc. Waste gas flares and stationary internal combustion engines should also be included on this form.
4. Rated Capacity in Millions of BTU per hour.
5. Type of Burner Unit. Use Codes (1*) at bottom of form. If not listed put (11) and specify.
6. Usage. Type of fuel burning equipment. Use codes (2*) at bottom of form. If not listed put (5) and specify.
7. Heat Usage. Percent of heat used for process and percent for space heating.

PAGE 2

8. Reference Number. Continue reference numbers from Page 1, using same number to identify information for same unit.
9. Fuel Data
Fuel Type. Coal, Gas, #2 Oil, #6 Oil, etc.
Maximum Capacity burned per hour. Gallons, pounds, cubic feet, etc.
Specify. Average amount burned per year. Gallons, tons, million cubic feet, etc.
Specify. Heat Content of Fuel. BTU per gallon, pound, cubic foot, etc.
Specify. Average Percent Sulfur Content.
Specify. Average Percent Ash Content
(If percent sulfur and percent ash are not known, list fuel type and supplier's name at bottom of page in spaces provided so that information may be obtained.)

PAGE 3

10. Reference Number. Use same numbers as on Pages 1 and 2 to identify information for same unit.
11. Air Pollution Control Equipment.

Manufacturer and Model Number. Information from nameplate. Type. Use Table 1. Efficiency. Percent design control on pollutants and actual percent control if known.

FUEL BURNING EQUIPMENT

1. FACILITY NAME		ADDRESS		For Agency Use Only		
FACILITY NUMBER		Information for Calendar Year	DATE			
		19__				
2	3	4	5	6	7	
Reference Number	Manufacturer & Model Number	Rated Capacity 10 ⁶ BTU/hr	Type of Burner Unit (Use Code 1*)	Usage (Use Code 2*)	Most Usage	
					% Process	% Space Heat

1*BURNER CODES

- 1. Cyclone Furnace
- 2. Pulverized Coal
- 3. Spreader Stoker
- 4. Hand Fired
- 5. Other Stoker (Specify)
- 10.

- 6. Multiple Port Gas
- 7. Forced Draft Gas
- 8. Atomizing Oil (Air)
- 9. Atomizing Oil (Mechanical)
- Rotary Cup Oil
- 11. Others (Specify)

2*USAGE CODES

- 1. Boiler, Steam
- 2. Boiler, Other (Specify)
- 3. Air Heating for Space Heating
- 4. Air Heating for Process Usage
- 5. Others (Specify)

MANUFACTURING PROCESS OPERATIONS

Page 1

1. Company Name and Address, plus year for which information is given (if existing facility) at top of page. Use data for most recent calendar year available.
2. Reference Number. Use an identifying number for each manufacturing process which emits matter to the air and use the same number of all three pages of this form to identify information for the same operation.
3. Process or Unit Operation Name. Identify the unit or process section for which information is given by name.
4. Rated Process Capacity. Give in tons per hour and the maximum rated capacity of the process or unit identified, wet weight.
5. Feed Input. Process rate in wet tons per hour and wet tons per year of materials fed to the operation.
6. Number of Emission Points to Air. Number of stacks, vents, etc., which emit materials to air.
7. Product Output. Product rate in wet tons per hour and wet tons per year from the operation.

Page 2

8. Reference Number. Use same number as on Page 1 of form to identify information for same process or operation.
9. Air Pollution Control Equipment
Manufacturer and Model Number. Nameplate Data.
Type. Use Table 1. Collection efficiency. Design and actual collection efficiency if known.

MANUFACTURING PROCESS OPERATIONS

COMPANY NAME		ADDRESS		For Agency Use Only	
FACILITY NUMBER		Information for Calendar Year	DATE		
		19____			

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Reference Number	Process or Unit Operation Name	Rated Process Capacity Tons/Hour	Feed Input*		Number of Emission Points to Air	Product Output*	
			Quantity Per Hour	Quantity Per Year		Quantity Per Hour	Quantity Per Year

* Specify Units of Measure Used

FOR ALL APPLICANTS

REFUSE DISPOSAL

- A. Company Name & Address plus year for which information is given if for renewal of permit, at top of page.
- B. Type Waste. Describe type of waste materials (paper, garbage, wood crates, sawdust, coal refuse, etc.).
- C: Maximum amount per day in pounds.
- D. Average amount per year in tons.
- E. Method of Disposal. Use codes at bottom of Form (1*).

REFUSE DISPOSAL			
A	Company Name	Information for Year	(Agency Use Only)
	Address	Date	
B	C	D	E
Description of Waste Materials	Maximum Amount Per day (Pounds)	Amount Per Year (Tons)	Method of Disposal 1*

1* Disposal Method Codes

1. Landfill on site
2. Landfill off site
3. Incinerator (complete Incinerator Section)
4. Burned in Boiler or Furnace

5. Other (Specify)

TANK SUMMARY (page 1 of 2)

SECTION H

1. Emission Point No./Name: _____

2. Was this tank constructed or modified after August 7, 1977? _____ yes _____ no

If yes please give date and explain. _____

3. Product Stored: _____

If more than one product is stored, provide the information in 4 A-E for each product.

4. Tank Data:

A. True Vapor Pressure at storage temperature: _____ psia/°F

B. Reid Vapor Pressure at storage temperature: _____ psia/°F

C. Density of product at storage temperature: _____ lb/gal

D. Molecular Weight of product vapor at storage temperature: _____ lb/lbmol

E. Throughput for most recent calendar year: _____ gal/yr

F. Tank Capacity: _____ gal

G. Tank Diameter: _____ feet

H. Tank Height / Length: _____ feet

I. Average Vapor Space Height: _____ feet

J. Tank Orientation: _____ Vertical or Horizontal

K. Type of Roof: _____ Dome or Cone

L. Is the Tank Equipped with a Vapor Recovery System? _____ Yes _____ No

If Yes, describe on separate sheet of paper and attach. Indicate efficiency.

M. Check the Type of Tank:

_____ Fixed Roof _____ External Floating Roof

_____ Pressure _____ Internal Floating Roof

_____ Variable Vapor Space

_____ Other, describe: _____

N. Check the Closest City:

_____ Jackson, Ms. _____ Birmingham, Al.

_____ Memphis, Tn. _____ Montgomery, Al.

_____ New Orleans, La. _____ Baton Rouge, La.

O. Check the Tank Paint Color:

_____ Aluminum Specular _____ Gray Light

_____ Aluminum Diffuse _____ Gray Medium

_____ Red _____ White

_____ Other, describe: _____

P. Tank Paint Condition: _____ Good or Poor

Q. Check Type of Tank Loading

1. Trucks and Rail Cars

_____ Submerged Loading of clean cargo tank

_____ Submerged Loading : Dedicated Normal Service

_____ Submerged Loading : Dedicated Vapor Balance Service

_____ Splash Loading of clean cargo tank

_____ Splash Loading : Dedicated Normal Service

_____ Splash Loading : Dedicated Vapor Balance Service

2. Marine Vessels

_____ Submerged Loading: Ships

_____ Submerged Loading: Barges

R. For External Floating Roof Tanks

1. Check the Type of Tank Seal:
 - Mechanical Shoe
 - Primary Seal Only
 - With Shoe-Mounted Secondary Seal
 - With Rim-Mounted Secondary Seal
 - Liquid Mounted Resilient Seal
 - Primary Seal Only
 - With Shoe-Mounted Secondary Seal
 - With Rim-Mounted Secondary Seal
 - Vapor Mounted Resilient Seal
 - Primary Seal Only
 - With Shoe-Mounted Secondary Seal
 - With Rim-Mounted Secondary Seal
2. Type of External Floating Roof: Pontoon
 Double-Deck

S. For Internal Floating Roof Tanks

1. Check the Type of Tank Seal:
 - Liquid Mounted Resilient Seal
 - Primary Seal Only
 - With Rim-Mounted Secondary Seal
 - Vapor Mounted Resilient Seal
 - Primary Seal Only
 - With Rim-Mounted Secondary Seal
2. Number of Roof Columns: _____
3. Length of Deck Seam _____ feet:
4. Area of Deck: _____ feet²
5. Effective Column Diameter: _____ feet
6. Check the Type of Tank:
 - Bolted with Column Supported Roof
 - Welded with Column Supported Roof
 - Bolted with Self-Supported Roof
 - Welded with Self-Supported Roof

5. Emissions Summary

1. Breathing Loss: _____ lb/hr _____ TPY
2. Working Loss: _____ lb/hr _____ TPY
3. Total Emissions: _____ lb/hr _____ TPY

6. UTM Coordinates:

A. Zone _____ B. North _____ C. East _____

SOLID WASTE INCINERATORS (page 1 of 1)

SECTION I

1. **Manufacturers Information:**
A. **Manufacturer Name:** _____
B. **Model Number:** _____
C. **Rated Capacity (tons/hour):** _____
D. **Type and amount of Waste per year:** _____
2. **Was this unit constructed or modified after August 7, 1977?** _____ **yes** _____ **no**
If yes please give date and explain. _____

3. **Type of Incinerator:** _____ **Single Chamber** _____ **Multiple Chamber**
_____ **Other, describe:** _____
4. **Auxiliary Equipment:**
A. **Primary Burner:**
1. **Fuel (Type):** _____
2. **Btu/hr rating:** _____
B. **Secondary Burner**
1. **Fuel (Type):** _____
2. **Btu/hr rating:** _____
C. **Give Sulfur Content if Fuel Oil is Burned:** _____ %
D. **Barometric Damper:** _____
E. **Guillotine Damper:** _____
F. **Other, specify:** _____
5. **Combustion Air:** _____ **Natural Draft** _____ **Induced Draft**
_____ **Forced Draft** _____ **Starved Air**
_____ **Other, specify:** _____
6. **Waste Feed Method:** _____ **Flue Fed** _____ **Chute Fed**
_____ **Continuous Direct** _____ **Batch Direct**
7. **Operating Schedule:**
A. **Hours per Day:** _____ **Days per week:** _____
B. **From:** _____ **To:** _____
(time) (time)
C. **Circle the applicable days:** M T W T F S S
8. **Percent (%) CO₂ in exit gas** _____
9. **Does this emission point have air pollution control equipment?** _____ **Yes** _____ **No**
If Yes, please complete the applicable Air Pollution Control Data Sheet found in Section L.

ASPHALT PLANTS (page 1 of 2)

SECTION J

1. Emission Point No./Name: _____
2. Manufacturers Name and Model No.: _____
3. Date Plant Manufactured: _____
4. Was this unit constructed or modified after August 7, 1977? _____ yes _____ no
If yes please give date and explain. _____

5. Type of Plant: _____ Batch _____ Continuous _____ Drum
6. Production:
 - A. Rated capacity of dryer: _____ tons/hour
 - B. Normal maximum rate: _____ tons/hour
 - C. Annual: _____ tons
7. Dryer: Length: _____ feet Diameter: _____ feet
8. Burner:
 - A. Manufacturers name and Model No.: _____
 - B. Rated capacity: _____ Btu/hour
 - C. Primary fuel
 1. _____ Gas _____ Oil Other (specify): _____
 2. Consumption:
 - a. Gas: _____ ft³/hour
 - b. Oil: _____ gal/hour
 - c. Other (specify units) _____
 3. Heat Value
 - a. Gas: _____ Btu/ ft³
 - b. Oil: _____ Btu/gal
 - c. Other (specify units) _____
 4. Sulfur content: _____ % S
 5. Ash content: _____ % ash
 6. Density of fuel oil (if applicable): _____ lb/ft³
 - D. Auxiliary fuel
 1. _____ Gas _____ Oil _____ Other (specify): _____
 2. Consumption:
 - a. Gas: _____ ft³/hour
 - b. Oil: _____ gal/hour
 - c. Other (specify units) _____
 3. Heat Value
 - a. Gas: _____ Btu/ ft³
 - b. Oil: _____ Btu/gal
 - c. Other (specify units) _____
 4. Sulfur content: _____ % S
 5. Ash content: _____ % ash
 6. Density of fuel oil (if applicable): _____ lb/ft³
9. Does this emission point have air pollution control equipment? _____ Yes _____ No
If Yes, please complete the applicable Air Pollution Control Data Sheet found in Section L.

10. Miscellaneous:

A. Are the shaker screens hooded and vented to air emission control systems: Yes / No

B. Are the hot elevator and bins vented to the air emission control system: Yes / No

C. Are in-plant roads: _____ **Water-sprinkled**
_____ **Oiled**
_____ **Paved**
_____ **Other, describe:** _____

11. Does this facility operate a rockcrusher? Yes_____ No_____

If yes, attach a diagram of the operation and list the capacity and date of construction for each crusher, screener, and conveyer.

CONCRETE PLANTS (page 1 of 2)

SECTION K

1. Emission Point No./Name: _____
2. Was this unit constructed or modified after August 7, 1977? _____ yes _____ no
If yes please give date and explain. _____

3. What type of batching will be accomplished:
_____ Wet (Rotary mixing trucks)
_____ Dry (Flat bed trucks with segregated material compartments)
_____ Central Mix (Batching at plant site)
4. Plant Production Rate: _____ yd³/hr
_____ tons/hour
5. Will the sand and aggregate be washed before delivery to your facility:
_____ Yes _____ No
6. Explain the method of moving aggregate from storage piles to storage bins located above aggregate hopper: _____

7. Will water sprays be used at the following locations:
A. Stockpiles: _____ Yes _____ No
B. Aggregate Bins _____ Yes _____ No
C. Conveyor Transfer Points _____ Yes _____ No
8. Cement Silo Information:
A. How many cement silos will this plant use: _____
B. What is the volume of each silo: _____ yd³
C. Explain method of loading cement silo: _____

D. Is the silo Compartmented: _____ Yes _____ No
E. If compartmented, what is the maximum number of cement trucks used to fill one compartment at any one time: _____
F. If non-compartmented, what is the maximum number of cement trucks used to fill the silo at any one time: _____
G. What type of dust control device will be used on the silo vent: _____

9. The cement hopper will be vented to the: _____ cement silo
_____ cement silo baghouse
_____ if neither,
where: _____
10. In-plant roads will be: _____ paved
_____ oil-coated
_____ water sprinkled
11. Raw materials input to plant:
A. Sand _____ yd³ _____ tons/hour
B. Rock _____ yd³ _____ tons/hour
C. Cement _____ yd³ _____ tons/hour

12. Will the batch drop point to the truck or central mixer be controlled to prevent dust emissions:

_____ Yes _____ No

A. If a shroud with exhaust air suction is to be used, submit the following:

1. Manufacturer Name & Model No.: _____

2. Shroud area: _____ ft²

3. CFM associated with suction pick-up of dust: _____ cfm

4. Attach baghouse air pollution control form in Section L.

B. If other type of control device is used, explain in detail: _____

13. If your facility has an air pollution control device, please complete the applicable Air Pollution Control Data Sheet found in Section L.

AIR POLLUTION CONTROL DEVICES

SECTION L

1. If the air pollution control device is different from the attached forms, then submit drawings, specifications, manufacturers data, etc.
2. Fill out one form for each air pollution control device and attach to the appropriate emission point description form.

BAGHOUSES

SECTION L1

1. Emission Point No. / Name : _____
2. Manufacturers Name & Model No.: _____
3. Date of construction for existing sources or date of anticipated start-up for new sources:

4. Baghouse Data:
 - a) Cloth area: _____ ft²
 - b) Air to cloth ratio: _____ acfm/ft²
 - c) Type of bag: _____ Woven _____ Felted
_____ Membrane _____ Other: _____
 - d) Bag material: _____
 - e) No. of bags: _____
 - f) No. of compartments: _____
 - g) Bag length: _____ ft
 - h) Bag diameter: _____ ft
 - i) Pressure drop: _____ inches H₂O
 - j) Pressure measurement device installed: _____ Yes _____ No
 - k) Air flow: _____ acfm @ _____ °F
 - l) Efficiency: _____ %
 - m) Dirty air on: _____ inside _____ outside of bag
 - n) Time between bag cleaning: _____ sec., min., hrs.
 - o) Method of bag cleaning: _____ Shaking _____ Reverse Air
_____ Pulse Jet _____ Other: _____
 - p) Are extra bags readily available: _____ Yes _____ No How Many? _____
 - q) How is the collected dust stored, handled, disposed of? _____

5. Which process(es) does the baghouse control emissions from? _____

ADSORPTION

SECTION L3

1. Emission Point No. / Name: _____
2. Manufacturers Name and Model No.: _____
3. Date of construction for existing sources or date of anticipated start-up for new sources: _____
4. Adsorption Data:
 - a) Type of Adsorption:
_____ One-pass regenerative _____ Two-pass regenerative
_____ Recirculating _____ Other: _____
 - b) Regenerative method:
_____ Discarded _____ Chemical
_____ Thermal (Dry heat) _____ Thermal (Steam)
_____ Other: _____
 - c) Adsorption material:
_____ Activated carbon _____ Hydrous silicate
_____ Other: _____
 - d) Efficiency: _____ %
 - e) Flow Rate: _____ acfm
 - f) Pressure Drop: _____ inches H₂O
 - g) Inlet temperature: _____ °F
 - h) No. of compartments: _____
 - i) Size of adsorbent bed:
 1. Length: _____ ft
 2. Width: _____ ft
 3. Height: _____ ft
 4. Diameter: _____ ft
 - j) Regenerative schedule:
 1. Maximum time for desorption: _____ sec., min., hrs.
 2. Length of time to maximum saturation: _____ sec., min., hrs.
 - k) How are emissions controlled during regeneration? _____

5. Which process(es) does the adsorber control emissions from? _____

AFTERBURNER

SECTION L4

1. Emission Point No. / Name: _____

2. Manufacturers Name and Model No.: _____

3. Date of construction for existing sources or date of anticipated start-up for new sources:

4. Afterburner Data:

a) Type of afterburner:
1) _____ Direct flame
2) _____ Catalytic
3) _____ Other: _____

b) Efficiency: _____ %

c) Flow Rate: _____ acfm

d) Maximum burner rating: _____ MMBtu / hr

e) Combustion chamber temperature: _____ °F

f) Retention time: _____ seconds

g) Combustion chamber dimensions:
1) Length: _____ ft
2) Width: _____ ft
3) Diameter: _____ ft

h) Fuel type: _____

i) If fuel oil is burned: _____ % SO₂

j) Fuel usage rate: _____ gals / hr, cfm, etc.

5. Which process(es) does the afterburner control emissions from? _____

5) **Type of plates:** _____

ELECTROSTATIC PRECIPITATORS (Page 1 of 2) SECTION L6

1. **Emission Point No. / Name:** _____

2. **Manufacturers Name and Model No.:** _____

3. **Date of construction for existing sources or date of anticipated start-up for new sources:**

4. **Precipitator Data:**

a) **Precipitator Type:**
_____ **Single Stage** _____ **Low Voltage** _____ **Hot Side**
_____ **Two Stage** _____ **High Voltage** _____ **Cold Side**
_____ **Other:** _____

b) **Efficiency:** _____ %

c) **Flow rate:** _____ acfm

d) **Pressure drop:** _____ inches H₂O

e) **Inlet temperature:** _____ ° F

f) **Total collection plate area:** _____ ft²

g) **Gas viscosity:** _____ poise

h) **Resistivity of pollutant:** _____ ohm - cm

i) **Charging field strength:** _____ volts

j) **Collecting field strength:** _____ volts

k) **No. of compartments:** _____

l) **No. of electrically separate fields:** _____

n) **Fan is:** _____ **Upstream** _____ **Downstream of precipitator**

o) **Cleaning Method:**

_____ **Plate Rapping**
_____ **Plate Vibrating**
_____ **None**
_____ **Washing**
_____ **Other:** _____

TABLE 1

CODE NUMBERS FOR CONTROL DEVICES

Vapor Control Equipment

00	GROUP - CONTROL BY COMBUSTION	50	GROUP - ELECTRICAL PRECIPITATORS
01	Catalytic Combustion	50	Single Stage
02	Furnace Combustion	51	Double Stage
03	Boiler Firebox	52	Precipitation
04	Steam Injection Flare		
05	Venturi Flare	60	GROUP
06	Direct Flame Combustion (Afterburner)		
10	GROUP - ADSORBERS	60	Counteractant
		70	GROUP - SPECIAL
10	Activated Carbon - Nonregenerative		
11	Activated Carbon - Regenerative	71	Jet Exhausters (Air Dilution)
12	Silica Gel - Nonregenerative	72	Mist Eliminators
13	Silica Gel - Regenerative		
14	Lithium Chloride	80	GROUP - Other
15	Activated Alumina		Specify
16	Activated Bauxite		
20	GROUP - ABSORBERS		
20	Sieve Plate Tower		
21	Bubble - Cap Tower		
22	Packed Tower		

**Particulate Matter -
Liquid Mist Control Equipment**

30	GROUP - DRY SEPARATORS & FILTERS
30	Simple Cyclones
31	High Efficiency Cyclones
32	Settling Chamber
33	Simple Filters
34	Baghouse (Shaking)
35	Baghouse (Reverse Jet)
36	Dry Collector (Dynamic)
40	GROUP - WET COLLECTORS
40	Spray Chamber - No Baffles
41	Spray Chamber - With Baffles
42	Wet Cyclones - Rotoclone
43	Wet Dynamic Precipitator
44	Venturi Scrubber
45	Spray Tower (Not Absorption - Scrubbers)
46	Packed Tower (Not Absorption - Scrubbers)
47	Condensers (Tube and Shell); air
48	Barometric Condenser with hot wells