

<u>FOR OFFICIAL USE ONLY</u>	
APPLICATION RECEIPT	_____
DATE:	_____
APPLICATION NO. :	_____
FOR MODIFICATION :	_____
MINOR	_____

**STATE OF MISSISSIPPI**  
**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**OFFICE OF POLLUTION CONTROL**  
**AIR DIVISION**  
**P.O. BOX 2261**  
**JACKSON, MS. 39225-2261**  
**PHONE NO.: (601) 961 - 5171**

**APPLICATION FOR TITLE V**  
**AIR POLLUTION CONTROL PERMIT**  
**TO OPERATE AIR EMISSIONS EQUIPMENT**

**PERMITTING ACTIVITY:**

- \_\_\_\_\_ INITIAL APPLICATION
- \_\_\_\_\_ MODIFICATION
- \_\_\_\_\_ RENEWAL OF OPERATING PERMIT

**NAME:** \_\_\_\_\_

**CITY:** \_\_\_\_\_

**COUNTY:** \_\_\_\_\_

**FACILITY No. (if known):** \_\_\_\_\_

**APPLICATION FOR TITLE V PERMIT TO  
OPERATE AIR EMISSIONS EQUIPMENT**

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## **OPERATING PERMIT APPLICATION REQUIREMENTS**

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All applications must be submitted on the form supplied by the Permit Board. Trivial activities as listed in Attachment A are presumed to emit less than 1 pound per hour of a pollutant that is not a hazardous air pollutant and less than 0.1 pound per hour of any hazardous air pollutant; these activities need not be reported in the application. Insignificant activities which are specified in Section VII.A. of Regulation APC-S-6 and listed herein also need not be included. For insignificant activities which are specified in Section VII.B. of Regulation APC-S-6, a list must be included in the application. An application may not omit information needed to determine the applicability of, or to impose, any applicable requirement, or to evaluate the fee amount required under the schedule pursuant to Section VI. of Regulation APC-S-6. The forms and attachments shall include the elements specified as follows:

- A. Identifying information, including company name and address (or plant name and address if different from the company name), owner's name and agent, and telephone number and names of plant site manager/contact;
- B. A description of the source's process and products by Standard Industrial Classification Code including any associated with any alternate scenario identified by the source;
- C. Emission-related information as follows:
  - 1. A qualitative description of all emissions units, including those not subject to applicable requirements but not those omitted under trivial or insignificant activities provisions;
  - 2. A description of all emissions of pollutants for which the source is major and of all emissions of regulated air pollutants sufficient to determine or verify major source status, to determine or verify applicability of and compliance with applicable requirements, and to assess and collect permit fees, if the emissions basis for fees has not been previously determined. Fugitive emissions from individual components within a facility may be determined collectively based on their relationship to the associated process unless individual emission rates are needed to determine the applicability of an applicable requirement such as NSPS, NESHAPS, a MACT standard, etc. or to determine air quality impacts. Similarly, where individual components or units with a facility may be classified into a generic group due to the commonality of applicable requirements and /or the nature of operation, stack emissions may be determined collectively for the group unless individual emission rates are needed to determine applicability of an applicable requirement or to determine air quality impacts;
  - 3. For each pollutant and emissions unit which is regulated, emission rates in TPY and in such terms as are necessary to establish compliance consistent with the applicable standard reference test method, except that, for pollutants and units which have no applicable requirements expressed in emission rate terms, emission rate quantification may be omitted;
  - 4. To the extent it is needed to determine or regulate emissions, the information that follows: fuels, fuel use, raw materials, production rates, and operating schedules;
  - 5. Identification and description of air pollution control equipment and compliance monitoring devices or activities;
  - 6. Limitations on source operation affecting emissions or any work practice standards, where applicable, for all regulated pollutants at the Title V source;
  - 7. Other information required by any applicable requirement (including information related to stack height limitations developed pursuant to Section 123 of the Federal Act); and

8. Calculations on which the information requested in this section is based.
- D. Air pollution control requirements as follows:
    1. Citation and description of all applicable requirements, and
    2. Description of or reference to any applicable test method for determining compliance with each applicable requirement;
  - E. Other specific information that may be necessary to implement and enforce other applicable requirements of the Federal Act or of these regulations or to determine the applicability of such requirements;
  - F. An explanation of any proposed exemptions from otherwise applicable requirements;
  - G. Additional information as determined to be necessary by the Permit Board to define alternative operating scenarios identified by the source pursuant to Section III.A.9. of Regulation APC-S-6 or to define permit terms and conditions implementing 40 CFR 70.4(b)(12) or Section III.A.10. of Regulation APC-S-6;
  - H. A compliance plan for all Title V sources that contains all of the following:
    1. A description of the compliance status of the source with respect to all applicable requirements;
    2. A description as follows:
      - a. For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements;
      - b. For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis;
      - c. For requirements for which the source is not in compliance at the time of permit issuance, a narrative description of how the source will achieve compliance with such requirements;
    3. A compliance schedule as follows:
      - a. For applicable requirements with which the source is in compliance, a statement that the source will continue to comply with such requirements;
      - b. For applicable requirements that will become effective during the permit term, a statement that the source will meet such requirements on a timely basis. A statement that the source will meet in a timely manner applicable requirements that become effective during the permit term shall satisfy this provision, unless a more detailed schedule is expressly required by the applicable requirements;
      - c. A schedule of compliance for sources that are not in compliance with all applicable requirements at the time of permit issuance. Such a schedule shall include a schedule or remedial measures, including an enforceable sequence of actions with milestones, leading to compliance with any applicable requirements for which the source will be in noncompliance at the time of permit issuance. This compliance schedule shall resemble and be at least as stringent as that contained in any judicial consent decree or administrative order to which the source is subject. Any such

schedule of compliance shall be supplemental to, and shall not sanction noncompliance with, the applicable requirements on which it is based;

4. A schedule for submission of certified progress reports, to be submitted no less frequently than every 6 months for sources required to have a schedule of compliance to remedy a violation;
5. The compliance plan content requirements specified in this paragraph shall apply and be included in the acid rain portion of a compliance plan for an affected source, except as specifically superseded by regulations promulgated under Title IV of the Federal Act with regard to the schedule and method(s) the source will use to achieve compliance with the acid rain emissions limitations;

I. Requirements for compliance certification, including the following:

1. A certification of compliance with all applicable requirements by a responsible official consistent with Section II.E of Regulation APC-S-6 and Section 114(a)(3) of the Federal Act;
2. A statement of methods used for determining compliance, including a description of monitoring, recordkeeping, and reporting requirements and test methods;
3. A schedule for submission of compliance certifications during the permit term, to be submitted no less frequently than annually, or more frequently if specified by the underlying applicable requirement or by the Permit Board;
4. A statement indicating the sources compliance status with any applicable enhanced monitoring and compliance certification requirements of the Federal Act; and

J. The use of nationally-standardized forms for acid rain portions of permit applications and compliance plans, as required by regulations promulgated under Title IV of the Federal Act.

## **INSIGNIFICANT ACTIVITIES AND EMISSIONS**

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- I. The following activities/emissions sources are not required to be included in a Title V permit application:
  - A. New or modified pilot plants, subject to temporary source regulations located in Section III.E. of regulation APC-S-6.
  - B. Maintenance and upkeep:
    - 1. Maintenance, structural changes, or repairs which do not change the capacity of such process, fuel-burning, refuse-burning, or control equipment, and do not involve any change in quality, nature, or quantity of potential emissions of any regulated air pollutants; and
    - 2. Housekeeping activities or building maintenance procedures;
  - C. Air conditioning or ventilation: comfort air conditioning or comfort ventilating systems which do not transport, remove, or exhaust regulated air pollutants to the atmosphere;
  - D. Laboratory equipment:
    - 1. Laboratory equipment used exclusively for chemical or physical analysis for quality control or environmental monitoring purposes; or
    - 2. Non-production laboratory equipment used at non-profit health or non-profit educational institutions for chemical or physical analyses, bench scale experimentation or training, or instruction;
  - E. Hot water heaters which are used for domestic purposes only and are not used to heat process water;
  - F. Fuel use related to food preparation by a restaurant, cafeteria, residential cooker or barbecue grill where the products are intended for human consumption;
  - G. Clerical activities such as operating copy machines and document printers, except operation of such units on a commercial basis;
  - H. Hand held equipment used for buffing, polishing, carving, cutting, drilling, machining, routing, sanding, sawing, surface grinding, or turning of ceramic art work, precision parts, leather, metals, plastics, fiber board, masonry, carbon, glass, or wood;
  - I. Equipment for washing or drying fabricated glass or metal products, if no VOCs are used in the process and no oil or solid fuel is burned;
  - J. Water cooling towers (except at nuclear power plants); water treatment systems for process cooling water or boiler feed water; and water tanks, reservoirs, or other water containers not used in direct contact with gaseous or liquid process streams containing carbon compounds, sulfur compounds, halogens or halogen compounds, cyanide compounds, inorganic acids, or acid gases;
  - K. Domestic sewage treatment facilities (excluding combustion or incineration equipment, land farms, storage silos for dry material, or grease trap waste handling or treatment facilities);
  - L. Stacks or vents to prevent escape of sewer gases through plumbing traps;
  - M. Vacuum cleaning systems for housekeeping, except at a source with hazardous air pollutants;

- N. Alkaline/phosphate washers and associated cleaners and burners;
  - O. Mobile sources;
  - P. Livestock and poultry feedlots and associated fuel burning equipment other than incinerators;
  - Q. Outdoor kerosene heaters;
  - R. Equipment used for hydraulic or hydrostatic testing;
  - S. Safety devices, excluding those with continuous emissions; and
  - T. Brazing, soldering, or welding equipment that is used intermittently or in a non-continuous mode.
- II. The following activities/emissions sources must be listed in the application but emissions from these activities do not have to be quantified.
- A. All gas fired, #2 oil fired, infrared, electric ovens with no emissions other than products of fuel combustion;
  - B. Combustion units with rated input capacity less than 10 million Btu/hr that are fueled by:
    1. Liquefied petroleum gas or natural gas supplied by a public utility; or
    2. Commercial fuel oil #2 or lighter;
  - C. Equipment used for inspection of metal products;
  - D. Equipment used exclusively for forging, pressing, drawing, spinning, or extruding metals;
  - E. Equipment used exclusively to mill or grind coatings and molding compounds where all materials charged are in paste form;
  - F. Mixers, blenders, roll mills, or calendars for rubber or plastics for which no materials in powder form are added and in which no organic solvents, diluents, or thinners are used;
  - G. All storage tanks used exclusively to store fuel oils, kerosene, diesel, jet fuel, crude oil, natural gas, or liquefied petroleum gas (the application must list the size of the tank, date constructed and/or modified, type tank, and material stored);
  - H. Space heaters utilizing natural or LPG gas and used exclusively for space heating;
  - I. Back-up or emergency use generators, boilers or other fuel burning equipment which is of equal or smaller capacity than normal main operating equipment, cannot be used in conjunction with normal main operating equipment, and does not emit, have or cause the potential to emit of any regulated air pollutant to increase;
  - J. Blast cleaning equipment using a suspension of abrasives in water;
  - K. Die casting machines;
  - L. Foundry sand mold forming equipment to which no heat is applied and from which no organics are emitted.

- M. Bark and wood - waste storage and handling;
- N. Log wetting areas;
- P. Log flumes;
- Q. Sodium hydrosulfide storage tank;
- R. Smelt dissolving tank view ports;
- S. Spout cooling water storage;
- T. Effluent drains;
- U. White water chest;
- V. Repupler vents;
- W. Clay storage tank;
- X. Alum storage tank;
- Y. Starch storage tank;
- Z. Steam vents and leaks;
- AA. Deaerator vents;
- AB. Mill air and instrument air system;
- AC. Demineralizer water storage tank;
- AD. Acid storage tank;
- AE. Process water tank;
- AF. Air purification system vents;
- AG. Effluent neutralizing tank/system;
- AH. Dregs washer;
- AI. Lime silo;
- AJ. Lime mud mix tank;
- AK. H<sub>2</sub>O<sub>2</sub> storage tank;
- AL. Green liquor tank; and
- AM. Tall oil storage tank.

III. Notwithstanding I. and II. above, the applicant shall include all emissions sources and quantify emissions if needed to determine major source status, to determine compliance with an applicable requirement and/or the applicability of any applicable requirement such as NSPS, NESHAP, MACT standard, etc. as such term is

defined in Section I. of Regulation APC-S-6 or collect any permit fee owed under the approved fee scheduled.

- IV. Notwithstanding I. and II. above, the applicant shall include all emission sources with a potential to emit:
1. greater than 1 pound per hour of any regulated pollutant that is not a hazardous air pollutant;
  2. greater than 0.1 pound per hour of any hazardous air pollutant.
- V. The permittee does not have to report the addition of any insignificant activity listed in Section I. above unless the addition is a Title I modification or requires a permit to construct. If a Title I permit or a Permit to Construct is required, then the modification procedures outlined in Section IV.E. of Regulation APC-S-6 shall be followed.
- VI. The addition of any insignificant activity listed in Section II. above, shall be handled as an administrative amendment as defined in Section IV.D. of Regulation APC-S-6 unless the addition is a Title I modification or requires a Permit to Construct. If a Title I permit or Permit to Construct is required, then the modification procedures outlined in Section IV.E. of Regulation APC-S-6 shall be followed.

## REGULATED AIR POLLUTANTS

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Total suspended particulate matter	Hydrochlorofluorocarbon-21
PM <sub>10</sub>	Hydrochlorofluorocarbon-22
Sulfur dioxide	Hydrochlorofluorocarbon-31
Nitrogen oxides	Hydrochlorofluorocarbon-121
Carbon monoxide	Hydrochlorofluorocarbon-122
Volatile organic compounds( see note 1)	Hydrochlorofluorocarbon-123
Lead	Hydrochlorofluorocarbon-124
Dioxin/Furan	Hydrochlorofluorocarbon-131
Fluorides	Hydrochlorofluorocarbon-132
Hydrogen chloride	Hydrochlorofluorocarbon-133
Hydrogen sulfide	Hydrochlorofluorocarbon-141
Sulfuric acid mist	Hydrochlorofluorocarbon-142
Total reduced sulfur	Hydrochlorofluorocarbon-221
Reduced sulfur compounds	Hydrochlorofluorocarbon-222
Arsenic	Hydrochlorofluorocarbon-223
Asbestos	Hydrochlorofluorocarbon-224
Beryllium	Hydrochlorofluorocarbon-225
Benzene	Hydrochlorofluorocarbon-226
Mercury	Hydrochlorofluorocarbon-231
Radionuclides	Hydrochlorofluorocarbon-232
Vinyl chloride	Hydrochlorofluorocarbon-233
Carbon tetrachloride	Hydrochlorofluorocarbon-234
Chlorofluorocarbon-11	Hydrochlorofluorocarbon-235
Chlorofluorocarbon-12	Hydrochlorofluorocarbon-241
Chlorofluorocarbon-13	Hydrochlorofluorocarbon-242
Chlorofluorocarbon-111	Hydrochlorofluorocarbon-243
Chlorofluorocarbon-112	Hydrochlorofluorocarbon-244
Chlorofluorocarbon-113	Hydrochlorofluorocarbon-251
Chlorofluorocarbon-114	Hydrochlorofluorocarbon-252
Chlorofluorocarbon-115	Hydrochlorofluorocarbon-253
Chlorofluorocarbon-211	Hydrochlorofluorocarbon-261
Chlorofluorocarbon-212	Hydrochlorofluorocarbon-262
Chlorofluorocarbon-213	Hydrochlorofluorocarbon-271
Chlorofluorocarbon-214	Halon-1211
Chlorofluorocarbon-215	Halon-1301
Chlorofluorocarbon-216	Halon-2402
Chlorofluorocarbon-217	Methyl chloroform

Note 1 - Volatile organic compounds (VOC) includes any compound of carbon, excluding carbon monoxide, carbonic acid, metallic carbides or carbonates and ammonium carbonate, which participates in atmospheric photochemical reactions. This includes any such organic compound other than the following which have been determined to have negligible photochemical reactivity: Methane; ethane; methylene chloride; 1, 1, 1-trichloroethane; CFC-113; CFC-11; CFC-12; CFC-22; FC-23; CFC-114; CFC-115; HCFC-123; HFC-134a; HCFC-141b; HCFC-142b; HCFC-124; HFC-125; HFC-134; HFC-143a; HFC-153a; and perfluorocarbon compounds which fall into these classes: (i) Cyclic, branched, or linear, completely fluorinated alkanes; (ii) Cyclic, branched, or linear, completely fluorinated ethers with no unsaturations; (iii) Cyclic, branched, or linear completely fluorinated tertiary amines with no unsaturations; and (iv) Sulfur containing perfluorocarbons with no unsaturations and with sulfur bonds only to carbon and fluorine. **For the purposes of this application hazardous air pollutants that are volatile organic compounds should be included as VOCs for reflection of total VOCs from the facility but need to be identified separately as well.**

## HAZARDOUS AIR POLLUTANTS

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<u>CAS No.</u>	<u>CHEMICAL NAME</u>
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
100447	Benzyl Chloride
7440417	Beryllium Compounds
192524	Biphenyl
117817	Bis(2-ethhylhexyl)phthalate(DEHP) (Diocyl 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
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)

## HAZARDOUS AIR POLLUTANTS

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**CAS No.      CHEMICAL NAME**

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
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
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
75343	Ethylidene dichloride (1,1-Dichloroethane)
50000	Formaldehyde
---	Glycol ethers (NOTE #2)
76448	Heptachlor

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**HAZARDOUS AIR POLLUTANTS**

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**CAS No.      CHEMICAL NAME**

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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
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)
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

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## HAZARDOUS AIR POLLUTANTS

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**CAS No.      CHEMICAL NAME**

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7803512 Phosphine  
 7723140 Phosphorus  
 85449 Phthalic anhydride  
 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)  
 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)  
 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)<sub>2</sub>.

NOTE # 2: Includes mono- and di- ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-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-(OCH<sub>2</sub>CH<sub>2</sub>)<sub>n</sub>-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.

**Owners Information**

**Section B**

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

A. Company 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. State: \_\_\_\_\_

4. County: \_\_\_\_\_ 5. Zip Code: \_\_\_\_\_

6. Telephone No.: ( ) \_\_\_\_\_

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

D. Contact:

1. Name: \_\_\_\_\_

2. Title: \_\_\_\_\_

3. SIC Code(s)(including any associated with alternate operating scenarios): \_\_\_\_\_  
\_\_\_\_\_
4. Number of Employees: \_\_\_\_\_
5. Principal Product(s): \_\_\_\_\_
6. Principal Raw Materials: \_\_\_\_\_
7. Principal Process(es): \_\_\_\_\_
8. Maximum amount of principal product produced or raw material consumed per day:  
\_\_\_\_\_
9. Facility Operating Schedule (Optional):
  - 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: \_\_\_\_\_
10. Is this facility a small business as defined by the Small Business Act? (Optional) \_\_\_\_\_

11. **EACH APPLICATION MUST BE SIGNED BY THE APPLICANT.**

**The application must be signed by a responsible official as defined in Regulation APC-S-6, Section I.A.26.**

*I certify that to the best of my knowledge and belief formed after reasonable inquiry, the statements and information in this application are true, complete, and accurate, and that, as a responsible official, my signature shall constitute an agreement that the applicant assumes the responsibility for any alteration, additions, or changes in operation that may be necessary to achieve and maintain compliance with all applicable Rules and Regulations.*

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**Printed Name of Responsible Official**

---

**Title**

---

**Date Application Signed**

---

**Signature of Applicants Responsible Official**





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**RISK MANAGEMENT PLANS**

If the source is required to develop and register a risk management plan pursuant to Section 112(r) of the Title III of the Clean Air Act, the permittee need only specify that it will comply with the requirement to register such a plan. The content of the risk management plan need not itself be incorporated as a permit term.

Please answer the following questions:

I. Are you required to develop and register a risk management plan pursuant to Section 112(r)?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

Only if "yes", answer questions II., III., and/or IV.

II. Have you submitted the risk management plan to the appropriate agency (i.e. Mississippi Emergency Management Agency (MEMA), Federal Emergency Management Agency (FEMA), etc.)?

\_\_\_\_\_ Yes                      \_\_\_\_\_ No

III. If yes, give agency name and date submitted. \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

IV. If no, provide a schedule for developing and submitting the risk management plan to the appropriate agency and providing our agency with certification that this submittal was made.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**FUEL BURNING EQUIPMENT (page 1 of 2)**

**SECTION D**

1. Emission Point No. / Name: \_\_\_\_\_
2. Equipment Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_
3. Was this unit constructed or modified after August 7, 1977? \_\_\_\_\_ Yes \_\_\_\_\_ No  
 If yes please give date and explain. \_\_\_\_\_  
 \_\_\_\_\_
4. Capacity: \_\_\_\_\_ MMBTU/hr      5. Type of burner: \_\_\_\_\_
6. Usage Type (i.e. Space Heat, Process, etc.) : \_\_\_\_\_
7. Complete the following table, identifying each type of fuel and the amount used. Specify the units for heat content, hourly usage, and yearly usage.

FUEL TYPE	HEAT CONTENT	% SULFUR	% ASH	MAXIMUM HOURLY USAGE	ACTUAL YEARLY USAGE

8. Please list any fuel components that are hazardous air pollutants and the percentage in the fuel.  
 \_\_\_\_\_  
 \_\_\_\_\_
9. Operating Schedule: (Optional) \_\_\_\_\_ hours/day      \_\_\_\_\_ days/week      \_\_\_\_\_ weeks/year
10. Stack Data:
 

A. Height: _____	C. Exit gas velocity: _____
B. Inside diameter: _____	D. Exit gas temperature: _____
11. UTM Coordinates:
 

A. Zone _____	B. North _____	C. East _____
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\*  
If yes, attach appropriate Air Pollution Control Data Sheet from Section L or manufacturers specifications if other.

**MANUFACTURING PROCESSES (page 1 of 2)**

**SECTION E**

1. Emission Point No./ Name: \_\_\_\_\_

2. Process Description: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

3. Was this unit constructed or modified after August 7, 1977? \_\_\_\_\_ yes \_\_\_\_\_ no  
 If yes please give date and explain. \_\_\_\_\_  
 \_\_\_\_\_

4. Capacity (tons/hr): \_\_\_\_\_

5. Raw Material Input:

MATERIAL	QUANTITY/HR AVERAGE	QUANTITY/HR MAXIMUM	QUANTITY/YEAR

6. Product Output:

PRODUCT or BY-PRODUCT	QUANTITY/HR AVERAGE	QUANTITY/HR MAXIMUM	QUANTITY/YEAR

7. Stack Data:

A. Height: \_\_\_\_\_ C. Exit gas velocity: \_\_\_\_\_  
 B. Inside diameter: \_\_\_\_\_ D. Exit gas temperature: \_\_\_\_\_

8. UTM Coordinates:

A. Zone \_\_\_\_\_ B. North \_\_\_\_\_ C. East \_\_\_\_\_



\*  
If yes, attach appropriate Air Pollution Control Data Sheet from Section L or manufacturers specifications if other.

**COATING, SOLVENT USAGE, and/or  
DEGREASING (page 1 of 5)**

**SECTION F**

**NOTE: For emission sources of volatile organic compounds (VOC's) including spray booths, painting, degreasing, finishing, gluing and solvent usage.**

**COMPLETE AND ATTACH THE APPROPRIATE AIR POLLUTION CONTROL DEVICE FORM.**

1. Emission Point No./ Name: \_\_\_\_\_

2. Process Description (INDICATE NO. OF IDENTICAL PROCESSES-BOOTHS, DIP TANKS, DEGREASING TANKS, FINISHING LINES, ETC.):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Were any of these units constructed or modified after August 7, 1977? \_\_\_\_\_ yes \_\_\_\_\_ no  
If yes please give date and explain. \_\_\_\_\_  
\_\_\_\_\_

4. COATING:

A. Describe Articles Coated: \_\_\_\_\_  
\_\_\_\_\_

B. Operating Schedule (Optional)

1. Maximum: \_\_\_\_\_ Hours/Day \_\_\_\_\_ Days/Week \_\_\_\_\_ Weeks/Year  
2. Average: \_\_\_\_\_ Hours/Day \_\_\_\_\_ Days/Week \_\_\_\_\_ Weeks/Year

C. Bake ovens: Type of oven: \_\_\_\_\_ For direct fired ovens:  
Number of \_\_\_\_\_ ( ) Steam ( ) direct fired Heat input MMBTU/hr \_\_\_\_\_  
Ovens: \_\_\_\_\_ ( ) Electric ( ) Other \_\_\_\_\_ Fuel type

5. SPRAY BOOTHS:

A. Width \_\_\_\_\_ (ft) Height \_\_\_\_\_ (ft)  
Depth \_\_\_\_\_ (ft) No. Open Sides \_\_\_\_\_

B. Operating Schedule

1. Maximum: \_\_\_\_\_ Hours/Day \_\_\_\_\_ Days/Week \_\_\_\_\_ Weeks/Year  
2. Average: \_\_\_\_\_ Hours/Day \_\_\_\_\_ Days/Week \_\_\_\_\_ Weeks/Year

C. Method of Spray:  
( ) Airless ( ) Air Atomize ( ) Electrostatic ( ) Other: \_\_\_\_\_  
Overspray \_\_\_\_\_ %

D. Exhaust Fan Data:

No. of Fans\_\_\_\_\_

Total Horsepower\_\_\_\_\_

Total Volume (cfm)\_\_\_\_\_

**COATING, SOLVENT USAGE, and/or  
DEGREASING (page 2 of 5)**

**SECTION F**

E. Exhaust Control:                      Control Efficiency:                      Exhaust Stack Data:

( ) None                                      Particulate \_\_\_\_\_ %      Diameter \_\_\_\_\_ (FT)

( ) Waterwash                              Hydrocarbon \_\_\_\_\_ %      Height \_\_\_\_\_ (FT)

( ) Adsorption                                      Flow \_\_\_\_\_ (CFM)

( ) Incineration

( ) Baffles

( ) Dry Filter

( ) Other: \_\_\_\_\_

6. DEGREASING:

A. Describe articles degreased. Include surface area of parts degreased in square feet per hour ( ft<sup>2</sup>/hr ) and square feet per year ( ft<sup>2</sup>/yr ).

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

B. Type of degreasing:

1. Cold Solvent \_\_\_\_\_ No. of Units \_\_\_\_\_

2. Vapor \_\_\_\_\_

    1. Oven top conveyor                      No. of Units \_\_\_\_\_

    2. Conveyorized non-boiling                      No. of Units \_\_\_\_\_

    3. Conveyorized vapor                      No. of Units \_\_\_\_\_

    4. Other \_\_\_\_\_

C. Tank Dimensions (ft):

Width \_\_\_\_\_ (ft)                      Height \_\_\_\_\_ (ft)                      Length \_\_\_\_\_

(ft)

D. Operating Schedule (Optional)

1. Maximum: \_\_\_\_\_ Hours/Day                      \_\_\_\_\_ Days/Week                      \_\_\_\_\_ Weeks/Year

2. Average: \_\_\_\_\_ Hours/Day                      \_\_\_\_\_ Days/Week                      \_\_\_\_\_ Weeks/Year

7. UTM Coordinates:

A. Zone \_\_\_\_\_                      B. North \_\_\_\_\_                      C. East \_\_\_\_\_



**COATING, SOLVENT USAGE, and/or  
DEGREASING (page 4 of 5)**

**SECTION F**

13. List all Hazardous Air Pollutants (HAP'S) found in each product:

PRODUCT NAME	HAZARDOUS AIR POLLUTANT	CAS NUMBER	MAXIMUM PRODUCT USAGE ** (LBS/HR)	PERCENT HAP	MAXIMUM HAP EMISSION RATES (in accordance with Operating Permit Application Requirements, pp. 3-5)	
					(LBS/HR)	(TONS/YR)

USE SEPARATE SHEET(S) IF NEEDED.

\*\* PRODUCT USAGE SHOULD NOT INCLUDE THOSE AMOUNTS RETURNED TO THE SUPPLIER, RECYCLED, OR REUSED.

**COATING, SOLVENT USAGE, and/or  
DEGREASING (page 5 of 5)**

**SECTION F**

14. Describe the storage and handling methods used in employing products listed in tables No. 12 & 13. Include disposal methods of the collected waste.

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15. List reclaimed material: MATERIAL TYPES INCLUDE COATINGS, THINNERS, SOLVENTS, DEGREASERS, LACQUERS, ETC.

PRODUCT/MATERIAL TYPE	QUANTITY USED (GAL/YR)	QUANTITY RECLAIMED (GAL/YR)
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Describe methods that the products listed above are reclaimed, including how they are captured and reused or returned.

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\* PLEASE NOTE THAT MATERIAL RECLAIMED WILL ONLY BE CREDITED IF PROPERLY DOCUMENTED.

1. Emission Point No./ Name: \_\_\_\_\_

2. Process Description: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Was this unit constructed or modified after August 7, 1977? \_\_\_\_\_ Yes \_\_\_\_\_ No  
If yes please give date and explain. \_\_\_\_\_  
\_\_\_\_\_

4. Type of Printing Operation:  
\_\_\_\_\_ publication rotogravure \_\_\_\_\_ web-offset  
\_\_\_\_\_ packaging rotogravure \_\_\_\_\_ web-offset (non-heatset)  
\_\_\_\_\_ flexographic \_\_\_\_\_ screen printing  
\_\_\_\_\_ Other (specify) : \_\_\_\_\_

5. 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.

6. Operating Schedule (Optional): \_\_\_\_\_ hrs/day \_\_\_\_\_ days/wk \_\_\_\_\_ wks/year

7. Stack Data:  
A. Height \_\_\_\_\_ feet  
B. Inside diameter \_\_\_\_\_ feet  
C. Exit gas velocity \_\_\_\_\_ feet/sec  
D. Exit gas temperature \_\_\_\_\_ °F

8. UTM Coordinates:  
A. Zone \_\_\_\_\_ B. North \_\_\_\_\_ C. East \_\_\_\_\_

9. Complete the table on the following page





**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: \_\_\_\_\_ psi/F
  - B. Reid Vapor Pressure at storage temperature: \_\_\_\_\_ psi/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: \_\_\_\_\_ feet<sup>2</sup>
- 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 2)**

**SECTION I**

- 1. Manufacturers Information:
  - A. Manufacturer Name: \_\_\_\_\_
  - B. Model Number: \_\_\_\_\_
  - C. 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 (Optional):
  - A. Hours per Day: \_\_\_\_\_ Days per week: \_\_\_\_\_
  - B. From: \_\_\_\_\_ To: \_\_\_\_\_  
(time) (time)
  - C. Check the applicable days: M T W T F S S
  
- 8. Stack Data:
  - A. Height \_\_\_\_\_ feet
  - B. Inside diameter \_\_\_\_\_ feet
  - C. Exit gas velocity \_\_\_\_\_ feet/sec
  - D. Exit gas temperature \_\_\_\_\_ °F
  
- 9. Percent (%) CO<sub>2</sub> in exit gas \_\_\_\_\_
  
- 10. UTM Coordinates:
  - A. Zone \_\_\_\_\_ B. North \_\_\_\_\_ C. East \_\_\_\_\_



**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. 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. Capacity: \_\_\_\_\_ Btu/hour
  - C. Primary fuel
    1. \_\_\_\_\_ Gas \_\_\_\_\_ Oil \_\_\_\_\_ Other (specify): \_\_\_\_\_
    2. Consumption:
      - a. Gas: \_\_\_\_\_ ft<sup>3</sup>/hour
      - b. Oil: \_\_\_\_\_ gal/hour
      - c. Other (specify units) \_\_\_\_\_
    3. Heat Value
      - a. Gas: \_\_\_\_\_ Btu/ ft<sup>3</sup>
      - b. Oil: \_\_\_\_\_ Btu/gal
      - c. Other (specify units) \_\_\_\_\_
    4. Sulfur content: \_\_\_\_\_ % S
    5. Ash content: \_\_\_\_\_ % ash
    6. Density of fuel oil (if applicable): \_\_\_\_\_ lb/gal
  - D. Auxiliary fuel
    1. \_\_\_\_\_ Gas \_\_\_\_\_ Oil \_\_\_\_\_ Other (specify): \_\_\_\_\_
    2. Consumption:
      - a. Gas: \_\_\_\_\_ ft<sup>3</sup>/hour
      - b. Oil: \_\_\_\_\_ gal/hour
      - c. Other (specify units) \_\_\_\_\_
    3. Heat Value
      - a. Gas: \_\_\_\_\_ Btu/ ft<sup>3</sup>
      - b. Oil: \_\_\_\_\_ Btu/gal
      - c. Other (specify units) \_\_\_\_\_
    4. Sulfur content: \_\_\_\_\_ % S
    5. Ash content: \_\_\_\_\_ % ash
    6. Density of fuel oil (if applicable): \_\_\_\_\_ lb/gal
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:
  - B. Are the hot elevator and bins vented to the air emission control system:
  - 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.

12. Stack Data:
- A. Height: \_\_\_\_\_
  - B. Inside diameter: \_\_\_\_\_
  - C. Exit gas velocity: \_\_\_\_\_
  - D. Exit gas temperature: \_\_\_\_\_

13. UTM Coordinates:
- A. Zone \_\_\_\_\_
  - B. North \_\_\_\_\_
  - C. East \_\_\_\_\_

14. POLLUTANT EMISSIONS:

Example emission rate calculations, monitoring data, or stack test data must be attached in accordance with Operating Permit Application Requirements, pp. 3-5.

POLLUTANT Footnote 1	ACTUAL EMISSION RATE (in accordance with Operating Permit Application Requirements, pp. 3-5)			PROPOSED ALLOWABLE EMISSION RATE (Optional)		
	Footnote 2	lb/hr	tons/yr	Footnote 2	lb/hr	tons/yr

1. All regulated air pollutants including hazardous air pollutants emitted from this source should be listed. A list of regulated air pollutants has been provided in Section A.
2. Provide emission rate in units of applicable emission standard, e.g. lb/MMbtu, gr/dscf, etc. This may not apply to every emission point or every pollutant from an emission point.

**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: \_\_\_\_\_ yd<sup>3</sup>/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: \_\_\_\_\_ yd<sup>3</sup>  
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 \_\_\_\_\_ yd<sup>3</sup> \_\_\_\_\_ tons/hour  
B. Rock \_\_\_\_\_ yd<sup>3</sup> \_\_\_\_\_ tons/hour  
C. Cement \_\_\_\_\_ yd<sup>3</sup> \_\_\_\_\_ 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: \_\_\_\_\_ ft<sup>2</sup>
  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.
14. Stack Data:
- A. Height: \_\_\_\_\_ C. Exit gas velocity: \_\_\_\_\_  
 B. Inside diameter: \_\_\_\_\_ D. Exit gas temperature: \_\_\_\_\_
15. UTM Coordinates:  
 A. Zone \_\_\_\_\_ B. North \_\_\_\_\_ C. East \_\_\_\_\_

**16. POLLUTANT EMISSIONS:**

Example emission rate calculations, monitoring data, or stack test data must be attached in accordance with Operating Permit Application Requirements, pp. 3-5.

POLLUTANT Footnote 1	ACTUAL EMISSION RATE (in accordance with Operating Permit Application Requirements, pp. 3-5)			PROPOSED ALLOWABLE EMISSION RATE (Optional)		
	Footnote 2	lb/hr	tons/yr	Footnote 2	lb/hr	tons/yr

1. All regulated air pollutants including hazardous air pollutants emitted from this source should be listed. A list of regulated air pollutants has been provided in Section A.
2. Provide emission rate in units of applicable emission standard, e.g. lb/MMbtu, gr/dscf, etc. This may not apply to every emission point or every pollutant from an emission point.

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**  
**L1**

**SECTION**

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: \_\_\_\_\_ ft<sup>2</sup>

b) Air to cloth ratio: \_\_\_\_\_ acfm/ft<sup>2</sup>

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 H<sub>2</sub>O

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  
L3**

**SECTION**

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 H<sub>2</sub>O
- 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: \_\_\_\_\_ % SO<sub>2</sub>
  - j) Fuel usage rate: \_\_\_\_\_ gals / hr, cfm, etc.
5. Which process(es) does the afterburner control emissions from? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**SCRUBBERS ( Page 1 of 2 )**  
**L5**

**SECTION**

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. Scrubber Data:
  - a) Scrubber type: \_\_\_\_\_ Venturi \_\_\_\_\_ Orifice  
\_\_\_\_\_ Packed Tower \_\_\_\_\_ Gravity Tower  
\_\_\_\_\_ Cyclonic \_\_\_\_\_ Condenser  
\_\_\_\_\_ Mist Eliminator \_\_\_\_\_ Impingement Plate  
\_\_\_\_\_ Other: \_\_\_\_\_
  - b) Liquid injection rate:
    - 1) Design maximum: \_\_\_\_\_ gpm @ \_\_\_\_\_ psia
    - 2) Expected average: \_\_\_\_\_ gpm @ \_\_\_\_\_ psia
  - c) Pressure drop: \_\_\_\_\_ inches H<sub>2</sub>O
  - d) Scrubbing liquid:
    - 1) \_\_\_\_\_ Once - through \_\_\_\_\_ Recycled
    - 2) If recycled: \_\_\_\_\_ gpm make - up rate
    - 3) If water, describe settling basin: \_\_\_\_\_
    - 4) Solution / Reactant systems:
      - a) Chemical make - up: \_\_\_\_\_
      - b) How is discharge handled, treated? \_\_\_\_\_
  - e) Gas flow: \_\_\_\_\_ Counter current \_\_\_\_\_ Concurrent
    - 1) Flow rate: \_\_\_\_\_ acfm
    - 2) Inlet Temperature: \_\_\_\_\_ °F
  - f) Venturi Data:
    - 1) Inlet Area: \_\_\_\_\_ ft<sup>2</sup>
    - 2) Throat Area: \_\_\_\_\_ ft<sup>2</sup>
    - 3) Throat velocity: \_\_\_\_\_ ft / sec
    - 4) \_\_\_\_\_ Fixed throat \_\_\_\_\_ Variable throat
  - g) Packed or Plate Tower Data:
    - 1) Surface Area: \_\_\_\_\_ ft<sup>2</sup>
    - 2) Packing depth: \_\_\_\_\_ ft
    - 3) Type of packing: \_\_\_\_\_ Rings \_\_\_\_\_ Saddles  
\_\_\_\_\_ Other:
    - 4) No. of plates: \_\_\_\_\_
    - 5) Type of plates: \_\_\_\_\_
  - h) Demisting Data:
    - 1) Mist eliminator filter area: \_\_\_\_\_ ft<sup>2</sup>
    - 2) Type: \_\_\_\_\_ Cyclone \_\_\_\_\_ Vanes \_\_\_\_\_ Pad  
\_\_\_\_\_ Other: \_\_\_\_\_
  - i) Efficiency: \_\_\_\_\_ %

**SCRUBBERS ( Page 2 of 2 )**  
**L5**

**SECTION**

- 
- j) Are extra nozzles readily av Yes \_\_\_\_\_ No \_\_\_\_\_  
How many? \_\_\_\_\_
- k) Pressure measurement devices installed? Yes \_\_\_\_\_ No \_\_\_\_\_
5. Which process(es) does the scrubber control emissions from? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**ELECTROSTATIC PRECIPITATORS (Page 1 of 2)**  
**L6**

**SECTION**

- 
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 H<sub>2</sub>O
  
    - e) Inlet temperature: \_\_\_\_\_ ° F
  
    - f) Total collection plate area: \_\_\_\_\_ ft<sup>2</sup>
  
    - 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:

\_\_\_\_\_







**COMPLIANCE DEMONSTRATION (page 1 of 2)**  
**M**

**SECTION**

Completion of Section M is not required for a complete application. It is presented to merely reflect what may be required by the Enhanced Monitoring and/or the Periodic Monitoring Regulations. Upon promulgation of those regulations, this section will be revised to reflect the actual requirements. Until then, the information in this section should be utilized for planning purposes.

Choose the type of monitoring that is suggested for your source in the "Enhanced Monitoring Guideline". Fill out the appropriate form and attach to the corresponding emission point description pages.

**A. Compliance Demonstration by Continuous Emissions Monitoring (CEM).**

Sulfur Dioxide(SO <sub>2</sub> )	Nitrogen Oxides (NO <sub>x</sub> )	Oxygen (O <sub>2</sub> )
Carbon Dioxide (CO <sub>2</sub> )	Total Reduced Sulfur (TRS)	Opacity
Hydrogen Chloride (Hcl)	Carbon Monoxide (CO)	Flow
Hydrogen Sulfide (H <sub>2</sub> S)	Volatile Organic Compound (VOC)	

**B. Compliance Demonstration by Periodic Emission Monitoring using Portable Monitors.**

SO <sub>2</sub>	NO <sub>x</sub>	O <sub>2</sub>	CO <sub>2</sub>	CO	HCl	H <sub>2</sub> S	VOC	Flow	Moisture
Combustibles		Combustion Efficiency							

**C. Compliance Demonstration by Monitoring Control System Parameters or Operating Parameters of a Process.**

Baghouse	Pressure drop across baghouse, Broken bag detector, Opacity.
Mechanical Collectors	Pressure drop across collector, Hopper full detector, Opacity.
Electrostatic Precipitators	Primary and secondary voltage, Primary and secondary currents, Spark Rate, Broken wire detector, Rap cycle frequency, Resistivity measurement, Inlet water flow, Total solids, Opacity.
Thermal Incinerator	Firebox temperature.
Catalytic Incinerator	Catalyst bed temperature.
Flare	Pilot light detector, Temperature after flame zone.
Particulate Scrubber	Pressure drop across scrubber and demister, Scrubber fluid recirculation rate, Pump discharge pressure, Pump motor current.
Absorber for Gases	pH of fluid, Fluid recirculation rate, Air flow, Pressure drop across absorber and demister, Fluid temperature.
Carbon Absorber	Steam mass flow rate per regeneration cycle, Carbon bed temperature.
Condenser	Condenser exit temperature, Amount of solvent recovered daily. Charging rate, Production rate, Hours of operation, Secondary chamber temperature, Kiln or dryer exit temperature, Burner combustion efficiency, Power

consumption, Static pressure, Fuel usage rate, Water injection rate.

**D. Compliance Demonstration by Monitoring Maintenance Procedures.**

Water quality testing	VOC leak testing
Sludge solids testing	Soot blowing frequency
Electrostatic precipitator cleaning frequency	Fugitive dust control measures
Blacklight inspection of baghouses	Control equipment inspection frequency
Sludge mercury testing	Reid vapor pressure testing
Periodic inspection of process operating parameters	

**E. Compliance Demonstration by Stack Testing.**

EPA Method 1 & 2 :	Flow (S-type pilot tubes, Hot-wire anemometer)
EPA Method 3 :	CO <sub>2</sub> , O <sub>2</sub> , CO (Orsat, Fyrite)
EPA Method 3A :	CO <sub>2</sub> , O <sub>2</sub> , (Analyzers)
EPA Method 4 :	Moisture (Wet bulb-Dry bulb, Impingers)
EPA Method 5 :	PM
EPA Method 6 :	SO <sub>2</sub> (Impingers)
EPA Method 6B :	SO <sub>2</sub> (24 hour average)
EPA Method 6C :	SO <sub>2</sub> (Analyzer)
EPA Method 7E :	NO <sub>x</sub> (Analyzer)
EPA Method 9 :	Opacity (Visible emissions reader)
EPA Method 10 :	CO (Analyzer)
EPA Method 16 :	TRS ( Gas Chromatograph)
EPA Method 16A :	TRS (Impingers)
EPA Method 16B:	TRS (Gas Chromatograph)
EPA Method 18 :	VOC (Gas Chromatograph)
EPA Method 21 :	VOC Leaks (Analyzer)
EPA Method 25A:	VOC (Analyzer with FID)
EPA Method 25B :	VOC (NDIR Analyzer)

**F. Compliance Demonstration by Fuel Sampling and Analysis (FSA).**

Coal Sampling	Coke sampling	Tire derived fuel sampling
Waste oil sampling	Sewage sludge sampling	Paper sludge sampling
Refuse derived fuel sampling	Landfill gas sampling	

**G. Compliance Demonstration by Recordkeeping.**

Testing and monitoring records	Records of malfunction
Compliance schedule records	As-applied coating & ink records,
Process hours of operation records	Transfer efficiency records
Fuel usage records	Production records
As-applied coating & ink composition records	









# COMPLIANCE DEMONSTRATION BY MONITORING MAINTENANCE PROCEDURES SECTION M4

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The monitoring of a maintenance procedure shall be acceptable provided that a correlation between the procedure and the emission rate of a particular pollutant is established in the form of a curve of emission rate versus the frequency of the procedure is performed. VOC or fugitive dust control programs are examples of procedures that could be monitored. The correlation shall be established using stack test data (if feasible). This data shall constitute certification of the system and must be attached for approval. If it is not attached, it shall be submitted within 60 days from the date of startup of the system or the date of application, which ever is later.

1. Emission Point No./Name : \_\_\_\_\_
2. Procedure being monitored: \_\_\_\_\_
3. Method of monitoring description: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Attach separate sheets if needed.

4. Backup system (attach other compliance demonstration forms if needed): \_\_\_\_\_  
\_\_\_\_\_
5. Frequency of certification:        \_\_\_\_\_ Daily    \_\_\_\_\_ Weekly        \_\_\_\_\_ Monthly
6. Any failure to fulfill a maintenance requirement shall be reported as an excess emission.
7. Is this an existing maintenance procedure:        \_\_\_\_\_ Yes    \_\_\_\_\_ No
8. The monitoring system shall be subject to appropriate performance specifications, calibration requirements, and quality assurance procedures.
9. If a quality assurance / quality control plan is not attached with the application for approval, it shall be submitted within 60 days from the date of startup of the monitoring program or the date of application, which ever is later.

**COMPLIANCE DEMONSTRATION BY  
STACK TESTING**

**SECTION M5**

Compliance demonstration by stack testing will be carried out in accordance with EPA approved reference methods and the stack test report must be attached.

1. Emission Point No./Name : \_\_\_\_\_
2. Pollutant being tested for: \_\_\_\_\_
3. Test Method: \_\_\_\_\_
4. Compliance shall be demonstrated:  
\_\_\_\_\_ Daily                      \_\_\_\_\_ Weekly                      \_\_\_\_\_ Monthly  
\_\_\_\_\_ Other (specify): \_\_\_\_\_
5. Any measured emission rate that exceeds an emission limit established by the permit must be reported as an excess emission.
6. Is this an existing method of demonstrating compliance:  
\_\_\_\_\_ Yes                      \_\_\_\_\_ No
7. Backup system (attach other compliance demonstration forms if needed): \_\_\_\_\_  
\_\_\_\_\_

# COMPLIANCE DEMONSTRATION BY FUEL SAMPLING AND ANALYSIS

## SECTION M6

An installation plan for each Fuel Sampling Analysis (FSA) System must be submitted with the permit application for approval. Fill out one (1) sheet per analyzer.

1. Emission Point No./Name : \_\_\_\_\_
2. Date of construction if for existing sources or date of anticipated start-up for new sources:  
\_\_\_\_\_
3. List the ASTM fuel sample collecting and analyzing methods used: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Fuel being sampled: \_\_\_\_\_
5. How will samples be taken: \_\_\_\_\_ Automated \_\_\_\_\_ Manual
6. Fuel Sampling Data:
  - A. Name of Manufacturer: \_\_\_\_\_
  - B. Model number: \_\_\_\_\_
  - C. Serial Number: \_\_\_\_\_
  - D. Is this an existing FSA system: \_\_\_\_\_ YES \_\_\_\_\_ No
  - E. How will samples be taken: \_\_\_\_\_ Automated \_\_\_\_\_ Manual
  - F. Backup system (attach other compliance demonstration forms if needed): \_\_\_\_\_  
\_\_\_\_\_
  - G. State the method of operating of the sampler: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
  - H. Attach a schematic of the FSA system showing the sample acquisition point and location of the machine.
  - I. Compliance shall be demonstrated:  
\_\_\_\_\_ Daily \_\_\_\_\_ Weekly \_\_\_\_\_ Monthly \_\_\_\_\_ Quarterly
7. Any composite sample over the emission rate will be reported as an excess emission.
8. If the FSA system certification is not attached for approval, it must be submitted within 60 days from startup of the FSA system or the date of application, which ever is later.

**COMPLIANCE DEMONSTRATION  
BY RECORDKEEPING**

**SECTION M7**

1. Emission Point No./Name : \_\_\_\_\_

2. Pollutant: \_\_\_\_\_

3. Material or parameter being monitored or recorded: \_\_\_\_\_

4. Method of monitoring and recordkeeping: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. List any EPA methods used: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

6. Compliance shall be demonstrated:

\_\_\_\_\_ Daily    \_\_\_\_\_ Weekly    \_\_\_\_\_ Monthly    \_\_\_\_\_ Quarterly

**MAJOR SOURCE AIR MONITORING NETWORK**

**SECTION M8**

1. Emission Point No./Name : \_\_\_\_\_
2. Air monitoring contact name and title: \_\_\_\_\_
3. Phone number: \_\_\_\_\_
4. Type of Air Monitoring Network: \_\_\_\_\_ Existing \_\_\_\_\_ Proposed
5. Pollutants to be monitored for (indicate all that will be monitored): \_\_\_\_\_  
\_\_\_\_\_
6. If conducting PSD Pre construction or PSD post construction, briefly describe reasons for monitoring:  
\_\_\_\_\_  
\_\_\_\_\_
7. Will quality assurance / quality control plans be submitted with permit application:  
\_\_\_\_\_ Yes \_\_\_\_\_ No If No, provide plan within 30 days of permit application date.
8. If plan has already been submitted and previously approved (network is an existing network), provide a copy of the most recent updated plan with any revisions or changes as an attachment to the permit application. Provide date of previous approval by technical secretary.  
Date : \_\_\_\_\_
9. The quality assurance / quality control plan that is submitted must contain sections that specifically address at minimum each of the following areas identified below.
  - A. Selection of analyzers, samples or sampling methods including installation of equipment, preventative and remedial maintenance.
  - B. Training of staff on equipment or methods.
  - C. Calibration procedures, frequency of calibration, control of calibration standards, recertification of standards.
  - D. Zero and span check frequency, adjustment of instrument response.
  - E. Control check frequency, control limits for zero and span response including corrective action.
  - F. Recording, validating and reporting procedures for data including assessment and reporting of precision and accuracy data.
  - G. Procedures to document implementation of plan and any subsequent changes to the plan.
  - H. Procedures to document and report causes of any missed data, violations of Ambient Air Quality Standards including upset conditions or malfunctions that affect or impact analyzers or samplers.
  - I. Siting of analyzers or samplers including topographic map coordinates, photographs of sites, maps with major terrain features, roads, buildings, rivers and proposed or exiting air contaminant sources.





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