

1. General Instructions:

- A. All applications must be submitted on the forms supplied by the Permit Board. Failure to submit any of the additional information or to conform to the instructions may result in initial rejection of the application. 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.
- B. Permits will be valid only for those operations, pollutants, and pollutant emission rates identified in the application.
- C. For new sources, the applicant shall complete the requested information in the application to the best of his/her knowledge. Where information is yet to be determined, the applicant may specify "TBD." The applicant shall submit an updated form(s) as such information becomes available,
- D. **Application Copies:**
In addition to the original, one copy of the application must be submitted unless additional copies are requested by the permit manager. For PSD applications, four copies shall be submitted so that MDEQ may provide a copy to air modeling staff, EPA Region 4, and the appropriate Federal Land Manager. (If available, MDEQ would like an electronic copy of all applications.)
- E. **Designs, Drawings, and Diagrams**
At a minimum, an application for a permit to construct or operate a stationary source shall be accompanied by the following:
1. **Process Description:**

The process description shall include a written description of each process to be carried out at 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 to air pollution. Control procedures must be described in sufficient detail to show the extent of control of air contaminants in the design.
 2. **Block Flow Diagram:**

A block flow diagram shall be provided to show the steps in the process, the flow of materials through the process, and the location of air emission sources within the process. All stacks and control devices shall be illustrated and clearly labeled.
 3. The Permit Board may require additional designs, drawings, or diagrams as deemed necessary to evaluate the air impacts of a new stationary source.
- F. The following permit applications must contain the specified sections, at a minimum, to be considered administratively complete.

**FORM 5
INSTRUCTIONS****MDEQ****INSTRUCTIONS FOR THE APPLICATION
FOR AIR POLLUTION CONTROL PERMIT**

Permit Type	Section				Appendix		
	A	B	M	N	A	B	C
State Permit to Construct	X	X		X			
New Source Review (PSD) Permit	X	X		X			X
Title V Operating Permit	X	X	X	X	X		
Synthetic Minor Operating Permit	X	X	X	X		X	
State Permit to Operate	X	X	X	X			
True Minor Determination	X	X					

2. Section-Specific Application Instructions:**Section A: Facility (Agency Interest) Information**

- 1.A. The Owner/Company Name should reflect the legal corporate entity that owns the facility.
- 1.B. The Facility Name may be the common name the plant is referred to as. For example, "Pascagoula Refinery" or "ABC Production Facility".
- 1.C. The Facility Air Permit No. may be left blank for a new source. For existing sources, the Permit No. (e.g., 1234-00001) may be found on the signed cover page of the current or previous permit.
- 1.D. For a new source, the Agency Interest No. may be left blank. For existing sources, the Agency Interest No. (e.g., AI 12345) may be found on the signed cover page of the current or previous permit.
- 1.E. The Physical Address is the location of the facility, preferably at the entrance to the facility or the address to which UPS/FedEx would deliver.
- 1.F. The Mailing Address is the address to which the US Post Office delivers mail to, whether the same as the physical address or a specific Post Office Box.
- 1.G. Determine the GPS coordinates of your facility, preferably at your plant entrance or other central location. A GPS device may be used or other mapping application such as Google Earth.
- 1.H. Standard Industrial Classification (SIC) Codes may be found at the following website: http://www.osha.gov/pls/imis/sic_manual.html. North American Industry Classification System (NAICS) Codes may be found at the following website: <http://www.naics.com/search.htm>. The SIC and NAICS Codes should correspond to the same industrial activity, with the codes representing the primary business listed first.
2. The Facility Contact should be a person at the permitted facility or having readily available access to the facility such that an inspection or other site visit may be arranged.

3. The Air Contact should be the person with the facility primarily responsible for environmental affairs as they pertain to air permitting. This may be the same person as the Facility Contact if located at or in proximity to the facility.
4. Make sure that the appropriate responsible official is designated in Section A.4 and has signed the application in Section A.12. A form designating a duly authorized representative is available at the following DEQ website: <http://www.deq.state.ms.us/Applications>.
5. Indicate what type of permit or permits the applicant is applying for. For example, an application for a new facility desiring to avoid Title V may want to apply for both a state permit to construct and a synthetic minor operating permit and, therefore, should mark both boxes to indicate such. Or if a new facility will require a state permit to construct but will not need a Title V or state operating permit, the applicant should mark boxes for both the state permit to construct and true minor determination.

For an application to reissue a permit, indicate whether or not modifications to the facility or to the permit are being requested. If the applicant is requesting such changes, these should be clearly identified in the application and preferably in a cover letter or other written attachment to the application.
6. Provide a list of the raw materials and products manufactured at the facility. The maximum throughput of raw materials and products should be provided and should reflect the maximum hourly rate achievable at the facility. Raw material and product throughputs may not apply to all stationary sources, such as electric generating units or municipal landfills.
7. Facility Operating Information is particularly important if your facility will operate on a seasonal or non-routine basis. Generally, the potential operating schedule should be assumed as all-day, year-round unless the source has operating restrictions.
8. Attach the required maps, including a topographical map extending ½ mile beyond the property, which helps not only define terrain features but also nearby structures. Also, a site map showing the property outline and location of buildings, roadways, and emission sources should be provided. The site map does not have to be drawn to scale but should show the location of emission sources in general relation to property boundaries and other building and roadways on site.
9. Zoning information is requested, and if the area is not properly zoned, it may be a reason for delaying a permit action.
10. Risk management plans (RMP) are required for facilities maintaining a specified quantity of one or more regulated substances under 40 CFR Part 68 at their source. More information on RMPs and the threshold quantities of the regulated substances is available at <http://www.epa.gov/oem/content/rmp/> or you may contact the Air Toxics Branch of MDEQ.

11. Indicate whether confidential business information (CBI) is being submitted with the application. Note that MDEQ application forms are generally considered public record. Any CBI should be clearly indicated as such and provided as a separate attachment to the application. The procedures in 11 Miss. Admin. Code Pt. 1, Ch. 2 for claiming information as confidential shall be followed. The Administrative Regulations may be found on the DEQ website: <http://www.deq.state.ms.us>.
12. The signature in Section A.12 should match the name in A.4.
13. Section A.13 of the application contains the minimum requirements for an application to be deemed administratively complete depending on the type of permit(s) needed. Indicate the number of each of the various sections included in your application. Note that because an application is administratively complete does not mean it is technically complete and DEQ may require additional forms be completed if needed.

Section B: Facility-wide Emissions Information

The Facility-wide Emissions Information should be provided on the Excel spreadsheet in the format shown. Extra columns and rows may be added if needed, but please be aware this may result in the table not fitting on one sheet. You can use the “page setup” feature to fit the table to one page width.

Emission Point numbering must be consistent throughout the application package and, for existing emission points, should match any MDEQ ID's in the current permit. Fill all cells in this table with the emission numbers or a “-“ symbol. A “-“ symbol indicates that emissions of this pollutant are not expected or are below the threshold required to be emitted.

Additional spreadsheets or pages must be attached providing the supporting calculations for the emissions provided in this section. If there are multiple emission sources permitted under one Emission Point ID, the total emissions for the Emission Point ID may be provided on the spreadsheet; however, supporting calculations for each emission source should be provided as necessary to determine the uncontrolled and proposed emissions. If an emission source or sources vent to multiple stacks the emissions may be divided evenly among the stacks or may be shown on a single stack, as long as the stack parameters for each stack are identified and an explanation is provided as to how emissions were represented from the multiple stacks.

1. In worksheet B.1, provide the maximum uncontrolled emissions for each regulated pollutant, with the exception of individual HAPs and GHGs, which are addressed in a following section. Maximum uncontrolled emissions are the emissions at maximum capacity and prior to (in the absence of) pollution control, emission-reducing process equipment, or any other emission reduction. Calculate the hourly emissions using the worst case hourly emissions for each pollutant. For each pollutant, calculate the annual emissions as if the facility were operating at maximum plant capacity without pollution controls for 8760 hours per year, unless otherwise approved by the Department. Emissions > 0.01 TPY must be included. If other regulated pollutants are emitted, with the exception of individual HAPs and GHGs, please add a column to include these. A list of the regulated pollutants is provided in Section 6 of these instructions.

2. In worksheet B.2, provide the proposed allowable emissions (Potential to Emit). Proposed allowable emissions are those emissions the facility is currently permitted to emit as limited by a specific permit requirement or federal/state standard (e.g., a MACT standard); or the emission rate at which the facility proposes to emit considering emissions control devices, restrictions to operating rates/hours, or other requested permit limits that reduce the maximum emission rates. Additional columns may be added if there are regulated pollutants (other than HAPs and GHGs) emitted at the facility.
3. In worksheet B.3, report the proposed allowable emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP is > 0.0001 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources. Use the HAP nomenclature as it appears in Section 6 below. Additional columns may be added as necessary to address each HAP.
4. In worksheet B.4, report the proposed allowable (Potential to Emit) for each greenhouse gas. Report potential emission rates in short tons per year, as opposed to metric tons required by 40 CFR Part 98 (EPA's Greenhouse Gas Mandatory Reporting Rule). The greenhouse gases are listed in Section 6 below and many emission factors are available in 40 CFR Part 98 (note that these factors usually give measurements in metric tons, not short tons required by MDEQ).
5. In worksheet B.5, report stack parameters for all vents (including building ventilation) and stacks emitting regulated pollutants at the facility. Tank or process vessel vents do not need to be included. If there are multiple stacks for an emission source with a single Emission Point ID, you may use the same ID number and make a note of such at the bottom of the spreadsheet.
6. In the Calculations worksheet, you may provide the supporting calculation in this and additional worksheets in the Excel spreadsheet. Or you may submit additional pages with the supporting calculations.

Sections C through K

1. A separate section shall be completed for each emission unit or process at the facility. Any section which does not pertain to the facility should not be included in the application.
2. Emissions of any regulated pollutants shall be provided for each emission unit or process in units of lb/hr and tons/yr, as well as in units of any applicable standard (e.g., gr/dscf, ppmv, lb/MMBTU). For each pollutant, the applicant shall indicate whether or not the emissions are controlled. If emissions are controlled, then the efficiency of the control device shall be specified and the potential uncontrolled emission rate shall be provided in addition to the proposed allowable/potential emission rate. **Emission Rate Calculations must be provided as an attachment to the application!**

3. Fugitive emissions from a Title V source or any source required to quantify fugitives to determine program applicability shall be included in the application. 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 a NSPS, NESHAP, MACT standard, etc., or to determine air quality impacts.
4. The Emission Point Designation should be the designation as assigned by MDEQ (e.g., AA-001). The applicant may also provide a Reference Number used by the facility if this will help better identify the relevant emission unit or process. For a new facility or new emission unit, please do not assign it an Emission Point; however, you may include a facility Reference Number.
5. The date of construction, reconstruction, or modification for an emission unit or process shall be the date such activity commenced. The following definitions shall be used when determining such date:
 - a. *Construction* means fabrication, erection, or installation of a facility.
 - b. *Reconstruction* means the replacement of components of an existing facility to such an extent that the fixed capital cost of the new components exceeds 50 percent of the fixed capital cost that would be required to construct a comparable entirely new facility. See 40 CFR 60.15 for more information regarding reconstruction.
 - c. *Modification* means any physical change in, or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which a standard applies) emitted into the atmosphere by that facility or which results in the emission of any air pollutant (to which a standard applies) into the atmosphere not previously emitted. (A modification does not include routine maintenance, repair, or replacement. This is the definition of *modification* found in 40 CFR 60.14(a).)
 - d. *Commenced* means that an owner or operator has undertaken a continuous program of construction or modification or that an owner or operator has entered into a contractual obligation to undertake and complete, within a reasonable time, a continuous program of construction or modification.
7. The table summarizing pollutant emissions for each emission unit type may include the emissions for all units at the facility within the given category. However, emissions from each unit must be quantified separately. For example, if the facility has five engines, one table may be used to list the emissions from each of the five engines instead of including five different tables for each.

Section L: Control Equipment

1. The applicant shall complete and attach the appropriate pages in Section L for each emission unit or process equipped with an air pollution control device.

2. If there is no specific form for a particular control device, the applicant shall use Section L7.

Section M: Compliance Demonstration

1. The applicant shall complete the applicable page(s) in Section M for each emission limitation or standard that requires monitoring or recordkeeping.
2. The applicant shall specify the emission limitation or standard for which the monitoring or recordkeeping demonstrates compliance. The applicant shall also indicate the underlying requirement for such monitoring or recordkeeping, such as a New Source Performance Standard or a Permit to Construct.
3. If there is no specific form for a particular monitoring approach, the applicant shall use Section M9.
4. The applicant may request a reduction or discontinuation of existing monitoring in Section M10 if such monitoring does not originate from a federal standard, such as a New Source Performance Standard or National Emission Standard for Hazardous Air Pollutants. Such a request must be accompanied by emission calculations and/or historical data demonstrating compliance with the emission limitation or standard. In any case, MDEQ reserves the right to determine whether the data is sufficient to reduce or remove monitoring.

Section N: Applicable Requirements and Status

1. Part 1, Summary of Applicable Requirements: Indicate which federal standards, as regulated in Title 40 of the CFR, the facility is or will be subject to. Also, indicate any previous permits to construct that the facility has received from the state, indicating whether the permit was a PSD or PSD-avoidance permit, if such permit is still the underlying basis for any limitations on any emission units or processes. Note that a PSD permit may contain PSD requirements for one pollutant while also containing PSD-avoidance requirements for another pollutant. Therefore, multiple boxes may be checked.
2. Part 2, Current and Applicable Requirements: The applicant shall specify all current applicable requirements, including all emission limitations and standards from applicable state and federal regulations, as well as from any previously issued permits. For any applicable regulation with emission standards for multiple pollutants, the applicant shall provide regulatory citations for each pollutant. The applicant shall certify the compliance status for each requirement.
3. Part 3, Future Applicable Requirements: The applicant shall specify all future applicable requirements, including all emission limitations and standards from applicable state and federal regulations, as well as from any previously issued permits addressing limits for proposed emission units. For any applicable regulation with emission standards for multiple pollutants, the applicant shall provide regulatory citations for each pollutant. The applicant shall indicate the compliance date for each requirement. The applicant may use "upon certification of construction" if the emission unit is proposed.

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT
--------------------------------	-------------	--

4. For any current applicable regulation with various limitations or standards from which the applicant may choose to comply with, the applicant shall provide regulatory citations in such detail that it is clear which limitation or standard the applicant is complying with.
5. For any future applicable regulation, the applicant shall provide the regulatory citation in as much detail as possible.
6. For an application for a Title V Operating Permit, by completing Section N, the applicant is complying with the requirements of APC-S-6, Section II.C.8.
7. Should the applicant for a Title V Operating Permit indicate that the source is not in compliance with any current applicable requirement, the applicant must attach a compliance schedule containing the information required by APC-S-6, Section II.C.8.c(3).

3. Instructions Specific to Title V Applications (*In addition to Sections 1 and 2 above*):

- A. 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 APC-S-6 or to define permit terms and conditions implementing 40 CFR 70.4(b)(12) or Section III.A.10 of APC-S-6 must be provided.
- B. Compliance certifications shall be submitted no less frequently than annually during the permit term, as specified in the Title V Operating Permit.
- C. If the facility has any insignificant activities or emissions, as defined in Section VII of APC-S-6, Appendix A of the application must be completed. Insignificant activities specified in Section VII.A of APC-S-6 (commonly referred to as trivial activities) do not have to be listed in Appendix A. Insignificant activities specified in Section VII.B of APC-S-6 must be listed in Appendix A.
- D. All insignificant activities must be quantified and the total emissions provided in Appendix A in order to determine potential Title V fees.
- E. Any emission source for which there is an applicable federal standard, such as a NSPS, NESHAP, or MACT standard, does not qualify as an insignificant activity and must be included in the application.
- F. Any emission source with a potential to emit greater than 1 pound per hour of any regulated pollutant that is not a hazardous air pollutant or greater than 0.1 pound per hour of any hazardous air pollutant does not qualify as an insignificant activity and must be included in the application.

4. Instructions Specific to Synthetic Minor Applications (*In addition to Sections 1 and 2 above*):

- A. An application for a synthetic minor operating permit must include all emission sources and shall not exclude any emission sources which may qualify as insignificant activities under APC-S-6.
- B. The applicant must complete and attach Appendix B, the Application Addendum for a Synthetic Minor Permit, to the front of the application. Appendix B shall be signed by the same responsible official as in Section A of the application.
- C. The applicant shall list any current or proposed restrictions required to maintain a synthetic minor status. These may include facility-wide emission limits or limitations or restrictions on specific emission units, fuels, operating hours, control devices, etc.

5. Instructions Specific to Prevention of Significant Deterioration (PSD) Applications (*In addition to Sections 1 and 2 above*):

- A. Appendix C must be completed and included with the application for a Prevention of Significant Deterioration (PSD) Permit to Construct. All elements of the checklist should be addressed.
- B. The air quality analysis checklist identifies the information that should be submitted, at a minimum, for MDEQ to adequately review an *Air Quality Analysis* report. The checklist should not be considered exhaustive for all modeling projects.
- C. A *modeling protocol* should be submitted for review and approval before modeling begins. The modeling protocol should describe the proposed action in detail and explain the choice of input parameters to be used.
- D. Some sections of the checklist may not be applicable to the proposed project. Therefore, the applicant should indicate the section is not applicable (*provide justification, as needed to explain why*), rather than ignore the topic in the modeling protocol/report.
- E. Information and modeling guidance is available on the MDEQ website at www.deq.state.ms.us/MDEQ.nsf/page/epd_NSR_Air_Quality_Modeling.
- F. Questions related to this checklist or air dispersion modeling should be directed to Bruce Ferguson at (601) 961-5141 or Jacqueline Evans at (601) 961-5163.
- G. For an application for a PSD Permit to Construct to be considered complete, it must include a BACT Review, Source Impact Analysis, and Air Quality Analysis as required by 40 CFR 52.21(j), (k), and (m), in addition to the requirements of the permit application form.

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT
--------------------------------	-------------	--

6. List of Regulated Air Pollutants:

** For the purposes of this application, volatile hazardous air pollutants (VHAPs) should be included as both VOCs as well as individual HAPs.*
** PM₁₀ and PM_{2.5} must include both the filterable and condensable portions. If a limit was established in a federal regulation or state permit that only limits filterable, please indicate the emissions as such.*

<p>Total suspended particulate matter (TSP/PM) Particulate matter less than 10 microns (PM₁₀) Particulate matter less than 2.5 microns (PM_{2.5}) Sulfur dioxide (SO₂) Nitrogen oxides (NO_x) Carbon monoxide (CO) Volatile organic compounds (VOCs) (see Note 1) Lead (Pb) Greenhouse Gases: Carbon Dioxide (CO₂) Methane (CH₄) Nitrous Oxide (N₂O) Hydrofluorocarbons (HFCs) Perfluorocarbons (PFCs) Sulfur hexafluoride (SF₆) CO₂ equivalents (CO₂e) Dioxin/Furan Fluorides Hydrogen chloride Hydrogen sulfide Sulfuric acid mist Total reduced sulfur (see Note 2) Reduced sulfur compounds (see Note 3) Arsenic Asbestos Beryllium Benzene Mercury Radionuclides Vinyl chloride Carbon tetrachloride Chlorofluorocarbon-11 Chlorofluorocarbon-12 Chlorofluorocarbon-13 Chlorofluorocarbon-111 Chlorofluorocarbon-112 Chlorofluorocarbon-113 Chlorofluorocarbon-114 Chlorofluorocarbon-115 Chlorofluorocarbon-211 Chlorofluorocarbon-212 Chlorofluorocarbon-213</p>	<p>Chlorofluorocarbon-214 Chlorofluorocarbon-215 Chlorofluorocarbon-216 Chlorofluorocarbon-217 Hydrochlorofluorocarbon-21 Hydrochlorofluorocarbon-22 Hydrochlorofluorocarbon-31 Hydrochlorofluorocarbon-121 Hydrochlorofluorocarbon-122 Hydrochlorofluorocarbon-123 Hydrochlorofluorocarbon-124 Hydrochlorofluorocarbon-131 Hydrochlorofluorocarbon-132 Hydrochlorofluorocarbon-133 Hydrochlorofluorocarbon-141 Hydrochlorofluorocarbon-142 Hydrochlorofluorocarbon-221 Hydrochlorofluorocarbon-222 Hydrochlorofluorocarbon-223 Hydrochlorofluorocarbon-224 Hydrochlorofluorocarbon-225 Hydrochlorofluorocarbon-226 Hydrochlorofluorocarbon-231 Hydrochlorofluorocarbon-232 Hydrochlorofluorocarbon-233 Hydrochlorofluorocarbon-234 Hydrochlorofluorocarbon-235 Hydrochlorofluorocarbon-241 Hydrochlorofluorocarbon-242 Hydrochlorofluorocarbon-243 Hydrochlorofluorocarbon-244 Hydrochlorofluorocarbon-251 Hydrochlorofluorocarbon-252 Hydrochlorofluorocarbon-253 Hydrochlorofluorocarbon-261 Hydrochlorofluorocarbon-262 Hydrochlorofluorocarbon-271 Halon-1211 Halon-1301 Halon-2402 Methyl chloroform</p>
---	--

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT
--------------------------------	-------------	--

6. List of Regulated Air Pollutants:

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-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, benched, 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.

Note 2 – Total reduced sulfur is the sum of the sulfur compounds hydrogen sulfide (H₂S), methyl mercaptan (CH₄S), dimethyl sulfide (C₂H₆S), and dimethyl disulfide (C₂H₆S₂).

Note 3 – Reduced sulfur compounds are hydrogen sulfide (H₂S), carbonyl sulfide (COS), and carbon disulfide (CS₂).

In order to ensure that MDEQ's data is accurate, please speciate all HAPs used at the facility emitted at a rate of 0.0001 TPY or greater from any emission source. If known, groups of compounds such as metal compounds, polycyclic organic matter (POM), etc. should be broken into individual compounds. The CAS number should be included. Below is a list of the 187 HAPs listed under Section 112 of the Clean Air Act.

Hazardous Air Pollutants:

CAS Number	CHEMICAL NAME
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)
---	Antimony Compounds
---	Arsenic Compounds (inorganic including arsine)
1332214	Asbestos
71432	Benzene
92875	Benzidine
98077	Benzotrichloride
100447	Benzyl Chloride
---	Beryllium Compounds

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT
--------------------------------	-------------	--

6. List of Regulated Air Pollutants:

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
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	Chlorobenzilate
67663	Chloroform
107302	Chloromethyl methyl ether
126998	Chloroprene (Neoprene; 2-Chloro-1,3-Butadiene)
---	Chromium Compounds (IV)
---	Cobalt Compounds (metal, dust, and fumes as Co)
---	Coke Oven Emissions
1319773	Cresols/Cresylic acid
108394	Cresol(m)
95487	Cresol(o)
106445	Cresol(p)
98828	Cumene (Isopropylbenzene)
---	Cyanide Compounds (NOTE #1)
94757	D (2,4), salts and esters
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

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT
--------------------------------	-------------	--

6.	List of Regulated Air Pollutants:
-----------	--

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)
1211142	Dinitrotoluene(2,4)
123911	Dioxane(1,4) (1,4-diethyleneoxide)
122667	Diphenylhydrazine(1,2)
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
118741	Hexachlorobenzene
87683	Hexachlorobutadiene
77474	Hexachlorocyclopentadiene
67721	Hexachloroethane
822060	Hexamethylene-1,6-diisocyanate
680319	Hexamethylphosphoramide
110543	Hexane
302012	Hydrazine
7647010	Hydrochloric acid (Hydrogen Chloride)
7664393	Hydrogen Fluoride (Hydrofluoric acid)
123319	Hydroquinone
78591	Isophorone
---	Lead Compounds
58899	Lindane (all isomers)
108316	Maleic anhydride
---	Manganese Compounds
---	Mercury Compounds

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT																																																																																												
6. List of Regulated Air Pollutants:																																																																																														
		<table border="0"> <tr><td>67561</td><td>Methanol</td></tr> <tr><td>72435</td><td>Methoxychlor</td></tr> <tr><td>74839</td><td>Methyl bromide (Bromomethane)</td></tr> <tr><td>74873</td><td>Methyl chloride (Chloromethane)</td></tr> <tr><td>71556</td><td>Methyl chloroform (1,1,1-Trichloroethane)</td></tr> <tr><td>60344</td><td>Methyl hydrazine</td></tr> <tr><td>74884</td><td>Methyl iodide (Iodomethane)</td></tr> <tr><td>108101</td><td>Methyl isobutyl ketone (Hexone)</td></tr> <tr><td>624839</td><td>Methyl isocyanate</td></tr> <tr><td>80626</td><td>Methyl methacrylate</td></tr> <tr><td>1634044</td><td>Methyl tert butyl ether</td></tr> <tr><td>101144</td><td>Methylene bis(2-chloroaniline)(4,4) (MOCA)</td></tr> <tr><td>75092</td><td>Methylene chloride (Dichloromethane)</td></tr> <tr><td>101688</td><td>Methylene diphenyl diisocyanate (MDI)</td></tr> <tr><td>101779</td><td>Methylenedianiline(4,4')</td></tr> <tr><td>---</td><td>Mineral fibers, fine (NOTE #3)</td></tr> <tr><td>91203</td><td>Naphthalene</td></tr> <tr><td>---</td><td>Nickel Compounds</td></tr> <tr><td>98953</td><td>Nitrobenzene</td></tr> <tr><td>92933</td><td>Nitrodiphenyl(4)</td></tr> <tr><td>100027</td><td>Nitrophenol(4)</td></tr> <tr><td>79469</td><td>Nitropropane(2)</td></tr> <tr><td>62759</td><td>Nitrosodimethylamine(N) (Dimethylnitrosoamine)</td></tr> <tr><td>59892</td><td>Nitrosomorpholine(N)</td></tr> <tr><td>684935</td><td>Nitroso-N-methylurea(N)</td></tr> <tr><td>56382</td><td>Parathion</td></tr> <tr><td>82688</td><td>Pentachloronitrobenzene (Quintobenzene)</td></tr> <tr><td>87865</td><td>Pentachlorophenol</td></tr> <tr><td>108952</td><td>Phenol</td></tr> <tr><td>106503</td><td>Phenylenediamine(p)</td></tr> <tr><td>75445</td><td>Phosgene</td></tr> <tr><td>7803512</td><td>Phosphine</td></tr> <tr><td>7723140</td><td>Phosphorus</td></tr> <tr><td>85449</td><td>Phthalic anhydride</td></tr> <tr><td>1336363</td><td>Polychlorinated biphenyls (Arochlors)</td></tr> <tr><td>---</td><td>Polycyclic Organic Matter (NOTE #4)</td></tr> <tr><td>1120714</td><td>Propane sultone(1,3)</td></tr> <tr><td>57578</td><td>Propiolactone(beta)</td></tr> <tr><td>123386</td><td>Propionaldehyde</td></tr> <tr><td>114261</td><td>Propoxur (Baygon)</td></tr> <tr><td>78875</td><td>Propylene dichloride (1,2 dichloropropane)</td></tr> <tr><td>75558</td><td>Propylene imine(1,2) (2-methyl aziridine)</td></tr> <tr><td>75569</td><td>Propylene oxide</td></tr> <tr><td>91225</td><td>Quinoline</td></tr> <tr><td>106514</td><td>Quinone (1,4-Cyclohexadienedione)</td></tr> <tr><td>---</td><td>Radionuclides (including radon) (NOTE #5)</td></tr> </table>	67561	Methanol	72435	Methoxychlor	74839	Methyl bromide (Bromomethane)	74873	Methyl chloride (Chloromethane)	71556	Methyl chloroform (1,1,1-Trichloroethane)	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, fine (NOTE #3)	91203	Naphthalene	---	Nickel Compounds	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	1336363	Polychlorinated biphenyls (Arochlors)	---	Polycyclic Organic Matter (NOTE #4)	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 #5)
67561	Methanol																																																																																													
72435	Methoxychlor																																																																																													
74839	Methyl bromide (Bromomethane)																																																																																													
74873	Methyl chloride (Chloromethane)																																																																																													
71556	Methyl chloroform (1,1,1-Trichloroethane)																																																																																													
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, fine (NOTE #3)																																																																																													
91203	Naphthalene																																																																																													
---	Nickel Compounds																																																																																													
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																																																																																													
1336363	Polychlorinated biphenyls (Arochlors)																																																																																													
---	Polycyclic Organic Matter (NOTE #4)																																																																																													
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 #5)																																																																																													

FORM 5 INSTRUCTIONS	MDEQ	INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT
--------------------------------	-------------	--

6. List of Regulated Air Pollutants:

---	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)
108054	Vinyl Acetate
593602	Vinyl Bromide
75014	Vinyl Chloride
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) ₂ .
NOTE #2:	Includes mono- and di-ethers of ethylene glycol, diethylene glycol and triethylene glycol R-(OCH ₂ CH ₂) _n -OR' where: N = 1,2,3 R = alkyl C7 or less or phenyl or alky substituted phenyl R' = H or alkyl C7 or less; or OR' consisting of carboxylic acid ester, sulfate, phosphate, nitrate, or sulfonate
NOTE #3:	Includes mineral fiber emissions from facilities manufacturing or processing glass, rock, or slag fibers (or other mineral derived fibers) of average diameter 1 micrometer or less.
NOTE #4:	Includes organic compounds with more than one benzene ring, and which have a boiling point greater than or equal to 100 Celsius.
NOTE #5:	A type of atom which spontaneously undergoes radioactive decay.

List of Common Air Abbreviations

APC-S-1	Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants
APC-S-2	Permit Regulations for the Construction and/or Operation of Air Emissions Equipment
APC-S-3	Regulations for the Prevention of Air Pollution Emergency Episodes
APC-S-4	Ambient Air Quality Standards
APC-S-5	Regulations for the Prevention of Significant Deterioration of Air Quality
APC-S-6	Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act
APC-S-7	Acid Rain Program Permit Regulations for Purposes of Title IV of the Federal Clean Air Act
BACT	Best Available Control Technology
CEM	Continuous Emission Monitor
CEMS	Continuous Emission Monitoring System
CFR	Code of Federal Regulations
CO	Carbon Monoxide
CO ₂ e	Carbon Dioxide Equivalent
COM	Continuous Opacity Monitor
COMS	Continuous Opacity Monitoring System
DEQ	Mississippi Department of Environmental Quality
EPA	United States Environmental Protection Agency
GHG	Greenhouse Gas
gr/dscf	Grains Per Dry Standard Cubic Foot
HP	Horsepower
HAP	Hazardous Air Pollutant
HFCs	Hydrofluorocarbons
lbs/hr	Pounds per Hour
M or K	Thousand
MACT	Maximum Achievable Control Technology
MM	Million
MMBTUH	Million British Thermal Units per Hour
NA	Not Applicable
NAAQS	National Ambient Air Quality Standards
NESHAP	National Emissions Standards For Hazardous Air Pollutants, 40 CFR 61 or National Emission Standards For Hazardous Air Pollutants for Source Categories, 40 CFR 63
NMVOC	Non-Methane Volatile Organic Compounds
NO _x	Nitrogen Oxides
NSPS	New Source Performance Standards, 40 CFR 60
O&M	Operation and Maintenance
PFCs	Perfluorocarbons
PM	Particulate Matter
PM ₁₀	Particulate Matter less than 10 Φm in diameter
PM _{2.5}	Particulate Matter less than 2.5 Φm in diameter
ppm	Parts per Million
PSD	Prevention of Significant Deterioration, 40 CFR 52
SIP	State Implementation Plan
SO ₂	Sulfur Dioxide
TPY	Tons per Year
TRS	Total Reduced Sulfur
VEE	Visible Emissions Evaluation
VHAP	Volatile Hazardous Air Pollutant
VOC	Volatile Organic Compound