| **FORM 5 INSTRUCTIONS** | | | | | | | | **MDEQ** | **INSTRUCTIONS FOR THE APPLICATION FOR AIR POLLUTION CONTROL PERMIT** | | | | | | | | | |
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| **1.** | **General Instructions:** | | | | | | | | | | | | | | | | | |
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|  | 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. | | | | | | | | | | | | | | |
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|  | B. | | | Permits will be valid only for those operations, pollutants, and pollutant emission rates identified in the application. | | | | | | | | | | | | | | |
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|  | 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, | | | | | | | | | | | | | | |
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|  | D. | | | Application Copies: | | | | | | | | | | | | | | |
|  |  | | | In addition to the original hard copy, one electronic copy of the application must be submitted. For PSD applications, the applicant should coordinate with MDEQ regarding sending an application directly to U.S. EPA Region 4 and any affected Federal Land Managers (FLM). | | | | | | | | | | | | | | |
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|  | 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: | | | | | | | | | | | | | | | |
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|  |  | | 1. | | Process Description: | | | | | | | | | | | | | |
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|  |  | |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 2. | | Block Flow Diagram: | | | | | | | | | | | | | |
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|  |  | |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 3. | | The Permit Board may require additional designs, drawings, or diagrams as deemed necessary to evaluate the air impacts of a new stationary source. | | | | | | | | | | | | | |
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|  | F. | | The following permit applications must contain the specified sections, at a minimum, to be considered administratively complete. In addition to these sections, any sections that pertain to equipment proposed or operated at the facility should be included. For modifications, Section A should always be completed, and also any other Sections that change as a result of the modification should be revised and submitted with the request for a modification. | | | | | | | | | | | | | | | |
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|  |  | | **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 |  |  |  |  |  |  | |
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| **2.** | **Section-Specific Application Instructions:** | | | | | | | | | | | | | | | | | |
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|  | **Section A: Facility (Agency Interest) Information** | | | | | | | | | | | | | | | | | |
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|  |  | | 1.A. | | The Owner/Company Name should reflect the legal corporate entity that owns the facility. | | | | | | | | | | | | | |
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|  |  | | 1.B. | | The Facility Name may be the common name the plant is referred to as. For example, “Pascagoula Refinery” or “ABC Production Facility”. | | | | | | | | | | | | | |
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|  |  | | 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 or by searching for the facility in MDEQ’s enSearch Online database: <https://opc.deq.state.ms.us/ensearchonline>. | | | | | | | | | | | | | |
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|  |  | | 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 or by searching for the facility in MDEQ’s enSearch Online database: <https://opc.deq.state.ms.us/ensearchonline>. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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: <https://www.mdeq.ms.gov/Applications>. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 9. | | Zoning information is requested, and if the area is not properly zoned, it may be a reason for delaying a permit action. | | | | | | | | | | | | | |
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|  |  | | 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 <https://www.epa.gov/emergency-response> or you may contact the Air Division of MDEQ (<https://www.mdeq.ms.gov/air/air-emissions-standards/accidental-release-prevention/>). | | | | | | | | | | | | | |
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|  |  | | 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: <https://www.mdeq.ms.gov/about-mdeq/regulations>/. | | | | | | | | | | | | | |
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|  |  | | 12. | | A copy of the Certificate of Good Standing, demonstrating that the applicant is registered and in good standing with the State of Mississippi is required. This is the legal entity to whom the permit will be issued. The certificate should be recent (i.e., within one year of application submittal). An unofficial certificate is acceptable and generally available from the Mississippi Secretary of State’s website: <https://www.sos.ms.gov/>. | | | | | | | | | | | | | |
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|  |  | | 13. | | The signature in Section A.13 should match the name in A.4. | | | | | | | | | | | | | |
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|  | **Section B: Facility-wide Emissions Information** | | | | | | | | | | | | | | | | | |
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|  |  | | 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. **You may use your own spreadsheet if it contains ALL the information required in Section B.**  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. To represent Proposed Allowable emissions as a facility-wide limit or a limit addressing more than one emission point, you may merge the applicable cells to indicate such (e.g., merge all the cells in the VOC ton/yr column and insert the limit of 245.0); however, include the lb/hr emissions if such emissions are not specifically limited.  For Title V applications, insignificant activities may be grouped as one emission point and reported in Section B. Fugitive emissions shall also be included for PSD and Title V applications, as well as applications for any source that is listed in the source categories provided in 40 CFR 52.21(b)(1)(i) or 11 Miss. Admin. Code Pt. 2, R. 6.1.A(17)(b). | | | | | | | | | | | | | | |  |
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|  |  | | 1. | | In worksheet B.0, provide a list of the existing and any proposed emission sources. The Emission Point ID may be left blank if no ID has been assigned to the source in a permit. The Facility ID may be either the ID the facility uses internally or a proposed ID for MDEQ to use with respect to new sources; however, Facility ID is not required. A brief description of the emission source should be provided. It can be an abbreviated description of that provided in Section 2 of an existing permit. The “Status” should be marked as either Proposed, Operating, or Removed. “Proposed” should be used if the emission source is proposed or under construction. “Operating” should be used if the emission source is operating or facility has certified construction as complete. “Removed” should be used if the emission source is no longer operable without being physically modified or has been physically removed from the site. To preserve the history of a site, MDEQ requests the applicant maintain “Removed” sources in Section B.0, minimally, for future reference. | | | | | | | | | | | | | |
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|  |  | | 2. | | 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 following sections. 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 limited by an enforceable permit requirement. 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. | | | | | | | | | | | | | |
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|  |  | | 3. | | 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. | | | | | | | | | | | | | |
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|  |  | | 4. | | In worksheet B.3, report the proposed allowable emissions (Potential to Emit) for each HAP from each regulated emission unit if the HAP is ≥ 0.01 tpy. Each facility-wide Individual HAP total and the facility-wide Total HAPs shall be the sum of all HAP sources. Select from the list of HAPs in the drop-down menu. (Note: Non-VOC HAPs are highlighted blue. Please do not change the color.) Additional columns may be added as necessary to address each HAP. | | | | | | | | | | | | | |
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|  |  | | 5. | | 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). Section B.4 is only required for facilities that have or will require a Title V Operating Permit, or for facilities in the Energy or Oil and Gas sectors as indicated by their primary SIC Code beginning with 13, 29, 46, or 49. | | | | | | | | | | | | | |
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|  |  | | 6. | | In worksheet B.5, report stack parameters for all vents (including building ventilation if sources vent inside a building) 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. | | | | | | | | | | | | | |
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|  |  | | 7. | | 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. | | | | | | | | | | | | | |
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|  | **Sections C through K** | | | | | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 2. | | The Emission Point Designation should be the designation as assigned by MDEQ (e.g., AA-001). The applicant may also provide a Reference Number (or Facility ID) 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. | | | | | | | | | | | | | |
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|  |  | | 3. | | 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: | | | | | | | | | | | | | |
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|  |  | |  | | a. | | *Construction* means fabrication, erection, or installation of a facility (unless specified otherwise in an applicable federal standard). | | | | | | | | | | | |
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|  |  | |  | | 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. | | | | | | | | | | | |
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|  |  | |  | | 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).) | | | | | | | | | | | |
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|  |  | |  | | 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. | | | | | | | | | | | |
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|  |  | | 4. | | A table or spreadsheet summarizing a common emission source category may be used in lieu of individual application forms, as long as it contains the information required in the form. For example, if the facility has 10 engines, one table may be used to list the engines, manufacturer, model year, heat input, power, etc. rather than submitting 10 Section D forms. | | | | | | | | | | | | | |
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|  | **Section L: Control Equipment** | | | | | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 2. | | If there is no specific form for a particular control device, the applicant shall use Section L7. | | | | | | | | | | | | | |
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|  | **Section M: Compliance Demonstration** | | | | | | | | | | | | | | | | | |
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|  |  | | 1. | | The applicant shall complete the applicable page(s) in Section M for each emission limitation or standard that requires monitoring or recordkeeping. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 3. | | If there is no specific form for a particular monitoring approach, the applicant shall use Section M9. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  | **Section N: Applicable Requirements and Status** | | | | | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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. | | | | | | | | | | | | | |
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|  |  | | 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 11 Miss. Admin. Code Pt. 2, R. 6.2.C(8)(b). | | | | | | | | | | | | | |
|  |  | |  | |  | | | | | | | | | | | | | |
|  |  | | 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 11 Miss. Admin. Code Pt. 2, R. 6.2.C(8)(c). | | | | | | | | | | | | | |
|  |  | | | | | | | | | | | | | | | | | |
| **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 11 Miss. Admin. Code Pt. 2, R. 6.2.C(7). or to define permit terms and conditions implementing 40 CFR 70.4(b)(12) or 11 Miss. Admin. Code Pt. 2, R. 6.3.A(10). 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 11 Miss. Admin. Code Pt. 2, R. 6.7.B. 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 11 Miss. Admin. Code Pt. 2, Ch. 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. | | | | | | | | | | | | | | |
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|  | | 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 <https://www.mdeq.ms.gov/air/nsr-air-quality-modeling-2/>. | | | | | | | | | | | | | | |
|  | |  | |  | | | | | | | | | | | | | | |
|  | | F. | | Questions related to this checklist or air dispersion modeling should be directed to [airmodeling@mdeq.ms.gov](mailto:airmodeling@mdeq.ms.gov). | | | | | | | | | | | | | | |
|  | |  | |  | | | | | | | | | | | | | | |
|  | | G. | | For an application for a PSD Permit to Construct to be considered complete, it must include a BACT Review, Source Impact Analysis, Air Quality Analysis, and Additional Impact Analysis, as required by 40 CFR 52.21(j), (k), (m), and (o), as well as a description of the source information required by 40 CFR 52.21(n). Also, a Class 1 Visibility Analysis maybe required per 40 CFR 52.21(p). | | | | | | | | | | | | | | |
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| **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 PM2.5 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 and include the condensable portion, if any.*** | | | | |
|  | Total suspended particulate matter (TSP/PM) | | | | Chlorofluorocarbon-214 |
|  | Particulate matter less than 10 microns (PM10) | | | | Chlorofluorocarbon-215 |
|  | Particulate matter less than 2.5 microns (PM2.5) | | | | Chlorofluorocarbon-216 |
|  | Sulfur dioxide (SO2) | | | | Chlorofluorocarbon-217 |
|  | Nitrogen oxides (NOx) | | | | Hydrochlorofluorocarbon-21 |
|  | Carbon monoxide (CO) | | | | Hydrochlorofluorocarbon-22 |
|  | Volatile organic compounds (VOCs) (see Note 1) | | | | Hydrochlorofluorocarbon-31 |
|  | Lead (Pb) | | | | Hydrochlorofluorocarbon-121 |
|  | Greenhouse Gases: Carbon Dioxide (CO2) | | | | Hydrochlorofluorocarbon-122 |
|  | Methane (CH4) | | | | Hydrochlorofluorocarbon-123 |
|  | Nitrous Oxide (N2O) | | | | Hydrochlorofluorocarbon-124 |
|  | Hydrofluorocarbons (HFCs) | | | | Hydrochlorofluorocarbon-131 |
|  | Perfluorocarbons (PFCs) | | | | Hydrochlorofluorocarbon-132 |
|  | Sulfur hexafluoride (SF6) | | | | Hydrochlorofluorocarbon-133 |
|  | CO2 equivalents (CO2e) | | | | Hydrochlorofluorocarbon-141 |
|  | Dioxin/Furan | | | | Hydrochlorofluorocarbon-142 |
|  | Fluorides | | | | Hydrochlorofluorocarbon-221 |
|  | Hydrogen chloride | | | | Hydrochlorofluorocarbon-222 |
|  | Hydrogen sulfide | | | | Hydrochlorofluorocarbon-223 |
|  | Sulfuric acid mist | | | | Hydrochlorofluorocarbon-224 |
|  | Total reduced sulfur (see Note 2) | | | | Hydrochlorofluorocarbon-225 |
|  | Reduced sulfur compounds (see Note 3) | | | | Hydrochlorofluorocarbon-226 |
|  | Arsenic | | | | Hydrochlorofluorocarbon-231 |
|  | Asbestos | | | | Hydrochlorofluorocarbon-232 |
|  | Beryllium | | | | Hydrochlorofluorocarbon-233 |
|  | Benzene | | | | Hydrochlorofluorocarbon-234 |
|  | Mercury | | | | Hydrochlorofluorocarbon-235 |
|  | Radionuclides | | | | Hydrochlorofluorocarbon-241 |
|  | Vinyl chloride | | | | Hydrochlorofluorocarbon-242 |
|  | Carbon tetrachloride | | | | Hydrochlorofluorocarbon-243 |
|  | Chlorofluorocarbon-11 | | | | Hydrochlorofluorocarbon-244 |
|  | Chlorofluorocarbon-12 | | | | Hydrochlorofluorocarbon-251 |
|  | Chlorofluorocarbon-13 | | | | Hydrochlorofluorocarbon-252 |
|  | Chlorofluorocarbon-111 | | | | Hydrochlorofluorocarbon-253 |
|  | Chlorofluorocarbon-112 | | | | Hydrochlorofluorocarbon-261 |
|  | Chlorofluorocarbon-113 | | | | Hydrochlorofluorocarbon-262 |
|  | Chlorofluorocarbon-114 | | | | Hydrochlorofluorocarbon-271 |
|  | Chlorofluorocarbon-115 | | | | Halon-1211 |
|  | Chlorofluorocarbon-211 | | | | Halon-1301 |
|  | Chlorofluorocarbon-212 | | | | Halon-2402 |
|  | Chlorofluorocarbon-213 | | | | 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-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). | | | | |
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|  | *In order to ensure that MDEQ’s data is accurate, please speciate all HAPs used at the facility emitted at a rate of 0.01 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.* | | | | |
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**List of Common Air Abbreviations**

11 Miss. Admin. Code Pt. 2, Ch. 1. Air Emission Regulations for the Prevention, Abatement, and Control of Air Contaminants

11 Miss. Admin. Code Pt. 2, Ch. 2. Permit Regulations for the Construction and/or Operation of Air Emissions Equipment

11 Miss. Admin. Code Pt. 2, Ch. 3. Regulations for the Prevention of Air Pollution Emergency Episodes

11 Miss. Admin. Code Pt. 2, Ch. 4. Ambient Air Quality Standards

11 Miss. Admin. Code Pt. 2, Ch. 5. Regulations for the Prevention of Significant Deterioration of Air Quality

11 Miss. Admin. Code Pt. 2, Ch. 6. Air Emissions Operating Permit Regulations for the Purposes of Title V of the Federal Clean Air Act

11 Miss. Admin. Code Pt. 2, Ch. 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

COM Continuous Opacity Monitor

COMS Continuous Opacity Monitoring System

DEQ Mississippi Department of Environmental Quality

EPA United States Environmental Protection Agency

gr/dscf Grains Per Dry Standard Cubic Foot

HP Horsepower

HAP Hazardous Air Pollutant

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

NOx Nitrogen Oxides

NSPS New Source Performance Standards, 40 CFR 60

O&M Operation and Maintenance

PM Particulate Matter

PM10 Particulate Matter less than 10 μm in diameter

ppm Parts per Million

PSD Prevention of Significant Deterioration, 40 CFR 52

SIP State Implementation Plan

SO2 Sulfur Dioxide

TPY Tons per Year

TRS Total Reduced Sulfur

VEE Visible Emissions Evaluation

VHAP Volatile Hazardous Air Pollutant

VOC Volatile Organic Compound