



ADDITIONAL TECHNICAL INFORMATION FOR CRUSHERS (CONCRETE, ASPHALT, ROCK) & LIMESTONE QUARRIES

The following information will be used for the technical review of a permit to install application for a **crusher**. This information is in addition to the general requirements outlined in the AQD document "Information for an Administratively Complete Permit to Install Application", Part 2 - Additional Supporting Information, Items A through F. All of the information may not be needed for each application. Also, this document may not be all inclusive. Additional information beyond that identified may be necessary to complete the technical review of any individual application. In the event a determination is made that new additional information is needed for a technical review, this document will be updated.

All referenced guidance documents are available at <http://www.deq.state.mi.us/aps> or you may contact the Permit Section at 517-373-7023.

NOTE: Non-metallic mineral crushing facilities may be eligible for a general permit. The use of a general permit provides a streamlined permitting alternative to the normal permitting procedure for processes that meet specified applicability criteria. Information for the general permit is available on the Internet at www.deq.state.mi.us/aps/generalpermits.shtml. Select "Air Permits" then "Permit to Install/New Source Review".

A. Process Description

1. List and describe all process equipment. Include make, model number, and maximum design throughput capacities for each piece of equipment (each crusher, conveyor, screen).
2. List and describe any air pollution control equipment and methods/work practices used to reduce emissions (i.e., enclosures, buildings, fabric filter dust collectors).
3. Describe the materials to be crushed and indicate the source of the materials (asphalt from road bed, quarry rock, concrete from building demolition). Include the maximum hourly and annual material throughput capacities for each piece of process equipment.
4. Date of original installation (at this or any previous site) and dates of any subsequent equipment modifications that have occurred for each piece of process equipment.
5. Specify if the plant is portable or fixed (attached to any anchor, slab, bedrock).
6. Describe the method of power generation, and specify the types and amounts of any fuel used.

B. Regulatory Discussion

The following state air pollution control regulations may be applicable. Please review these regulations carefully to determine if they apply to your process and summarize the results in the application. The Air Pollution Control Rules may be viewed and downloaded from the AQD website at: www.michigan.gov/deqair.

1. State of Michigan, Department of Environmental Quality, Act 451 of 1994, Natural Resources and Environmental Protection Act, Part 55 Air Pollution Control and the following promulgated rules:
 - a) Rules 215 and 216 apply to an existing facility which has a current Renewable Operating Permit (ROP). A Permit to Install issued for the installation of new equipment or modifications to existing equipment is incorporated into an ROP pursuant to Rules 215 and 216.
 - b) Rule 301 specifies a process or process equipment shall not discharge visible emissions of a density greater than the most stringent of a 6-minute average of 20% opacity, or a limit specified by an applicable federal NSPS or as a condition of a Permit to Install.
 - c) Rule 331 specifies a maximum allowable particulate emission rate for material handling equipment if no federal limit applies.

- d) Rule 901 prohibits emissions of an air contaminant in quantities that cause either a) injurious effects to human health or safety, animal life, plant life of significant economic value, or property; or b) unreasonable interference with the comfortable enjoyment of life and property. Please submit the following to address this rule:

A description of the continuous fugitive dust control program used to control dust from the plant, roads, and yard during construction and operation of the facility.

2. Federal Standards of Performance for New Stationary Sources (NSPS), 40 CFR Part 60, Subpart 000, Nonmetallic Mineral Processing Plants. If the equipment has previously been operated and NSPS testing has been performed, provide a copy of the test results.

C. Control Technology Analysis

1. Describe the scrubber or fabric filter collector for particulate control. Include all of the information requested on the information sheets for fabric filters or scrubbers (available separately).
2. Describe any water spray controls and their locations on the equipment including how an adequate supply of water will be provided. Also indicate whether these controls will be used during freezing weather conditions, if the plant will operate during cold weather months.
3. Describe plans to ensure that no asbestos-containing materials will be processed in the equipment if building demolition materials will be processed.