

**MARYLAND DEPARTMENT OF THE ENVIRONMENT
AIR AND RADIATION ADMINISTRATION
AIR QUALITY PERMITS PROGRAM
PRECONSTRUCTION AND OPERATING PERMIT
GUIDELINES AND APPLICATION PROCEDURES FOR
CRUSHING AND/OR SCREENING PLANTS AT
TEMPORARY SITES**

Code of Maryland Regulations (COMAR) 26.11.02.09A and 26.11.02.13 require a person constructing a fixed or portable crushing and/or screening plant with a rated capacity of five tons per hour or greater in the State of Maryland to obtain an air quality permit to construct and a permit to operate from the Department prior to installation and operation of the equipment.

These guidelines describe the preconstruction and operating permit requirements and procedures and regulations applicable to crushers and/or screening plants at temporary sites processing coal, stone, waste concrete, brick, block, recycled asphalt pavement (RAP) and/or demolition debris.

I. GUIDELINES

Crushing and/or screening plants with a throughput of less than 5 tons per hour require a permit to construct. Crushing and/or screening plants with a throughput of 5 tons per hour or greater require both a permit to construct and a permit to operate. However, pursuant to COMAR 26.11.02.13D, the Department is authorized to exempt sources that do not have a significant adverse impact on air quality from the requirement to obtain a permit to operate. Based on ARA policy (see "Policy to Exempt Certain Crushing and/or Screening Operations at Temporary Sites from State Permit to Operate Requirements" dated March 15, 2013), the Department has determined that crushing and/or screening operations at temporary sites meeting the following criteria are exempt, under COMAR 26.11.02.13D, from the requirement to obtain an operating permit:

- (1) The crushing and/or screening equipment must be portable and be located at a site where it will be used to process a finite amount of material that is stored on site and generated by operations at the site prior to the issuance of the Permit to Construct. New material generated on site during the course of the permit period and any material generated off site are prohibited from being processed under the Permit to Construct. Examples of operations that are considered temporary are the processing of in-situ stone at a construction site or concrete waste at a concrete batch plant, the replacement of a runway at an airport, and the demolition of a building where the waste products are processed at the site.
- (2) No crushing and/or screening equipment can relocate to the same site for at least three years after the expiration of the permit to construct. If there are plans to return to the same site or if equipment could be used at the same site sporadically, this would be considered a permanent site.

General Requirements

- (1) Specifications on each engine must be included as part of the permit to construct application package. These specifications include the type of engine, the horsepower rating

of the engine, the stack height, the diameter of the stack, the firing rate of the engine in gallons per hour, and the total amount of fuel that will be consumed.

- (2) The owner of the equipment will be required to install a wet suppression system (or an equivalent method approved by the Department) on the crushing and/or screening equipment in order to reduce the emissions of particulate matter.
- (3) A complete application for a permit to construct for a crushing and/or screening plant processing coal, stone, waste concrete, RAP, and/or other materials must be submitted for review and the applicable permit fee paid. The procedures for submitting an application are set forth in Section III. Once the Department receives an application, a payment transmittal for the permit fee will be sent to the applicant. The permit fee must be paid as specified in the payment transmittal.
- (4) A temporary permit for portable equipment is issued for a specific site. If the portable equipment is moved to an alternate site, a new temporary permit is required. The new site must also meet the criteria for a temporary permit.
- (5) A permit to construct issued for a temporary site is valid for a specific and limited period of time and authorizes the processing of specific amounts and types of materials as specified in the permit.

II. APPLICABLE REGULATIONS

The application must demonstrate that all applicable State and Federal air pollution control regulations will be met. These regulations include, but are not limited to, the following:

- (1) COMAR 26.11.06.02C, which prohibits visible emissions other than water in an uncombined form for installations located in Baltimore City and Anne Arundel, Baltimore, Carroll, Harford, Howard, Montgomery or Prince George's counties, and limits visible emissions to 20% opacity for installations located in all other counties. This requirement applies to crushing and screening plant installations equipped with capture systems.
- (2) COMAR 26.11.06.03B, which limits particulate matter emissions from installations equipped with capture systems.
- (3) COMAR 26.11.06.03C and D, which require reasonable precautions be taken to prevent particulate matter from becoming airborne from unconfined sources such as stockpiles, roadways, and materials handling operations. Some methods of control are listed in Section III.
- (3) COMAR 26.11.06.08 and 26.11.06.09, which generally prohibit the discharge of emissions beyond the property line in such a manner that a nuisance or air pollution is created.
- (4) COMAR 26.11.15.05 & .06, which requires the Company to use the Best Available Control Technology for Toxics (T-BACT) to minimize toxic air pollutants and which prohibits the discharge of toxic air pollutants to the extent that the emissions will unreasonably endanger human health. A wet suppression system (or an equivalent method approved by the Department) must be installed to reduce the emissions from the equipment.

- (5) 40 CFR 60, Subpart OOO – Federal New Source Performance Standards (NSPS) for Nonmetallic Mineral Processing Plants, which include opacity limitations, monitoring, record keeping, and reporting requirements for a **portable** crushing and screening plant, the plant has a rated **capacity** of greater than 150 tons per hour.
- (6) 40 CFR 60, Subpart Y – Federal NSPS for Coal Preparation Plants, which include opacity limitations, monitoring, record keeping, and reporting requirements for plants processing coal.

III. APPLICATION PROCEDURES

- (1) Complete the following permit to construct application forms:
 - (a) Form 41 – Application for Portable Crushing/Screening Equipment at Temporary Sites
 - (b) Form 6 – Application for Permit to Construct Gas Cleaning or Emission Control Equipment. Complete Form 6 if a capture system such as a baghouse is to be installed.

Application forms can be found on the Department's website, www.mde.maryland.gov. Click on Permits, then Air & Radiation Permits, then Permits to Construct and Operate Application Forms.

- (2) The following additional information must be submitted with the completed application forms:
 - (a) Drawings or vendor literature of the plant and, if applicable, the engine(s), including information describing the required wet suppression system and where it is located on the plant;
 - (b) Sketch, drawing, or aerial photograph of the job site;
 - (c) Documentation indicating the maximum rated capacity of the plant and whether the plant is a portable or fixed plant;
 - (d) Evidence that the owner of the plant will have Workman's Compensation Insurance.
- (3) Send three copies of the application forms and all required additional information to the following address:

**Maryland Department of the Environment
Air and Radiation Administration
Air Quality Permits Program
1800 Washington Blvd., Suite 720
Baltimore, Maryland 21230-1720**

- (4) Further information may be obtained by calling the Department's Air Quality Permits Program at (410) 537-3230.

IV. DEFINITIONS

- (1) **Capacity** – The cumulative rated throughput capacity of all initial crushers that are part of the plant.
- (2) **Nonmetallic Mineral** - any of the following minerals or any mixture such as in recycled asphalt pavement (RAP) of which the majority is any of the following minerals:
 - (a) Crushed and Broken Stone, including Limestone, Dolomite, Granite, Traprock, Sandstone, Quartz, Quartzite, Marl, Marble, Slate, Shale, Oil Shale, and Shell.
 - (b) Sand and Gravel.
 - (c) Clay including Kaolin, Fireclay, Bentonite, Fuller's Earth, Ball Clay, and Common Clay.
 - (d) Rock salt.
 - (e) Gypsum.
 - (f) Sodium Compounds, including Sodium Carbonate, Sodium Chloride, and Sodium Sulfate.
 - (g) Pumice.
 - (h) Gilsonite.
 - (i) Talc and Pyrophyllite.
 - (j) Boron, including Borax, Kernite, and Colemanite.
 - (k) Barite.
 - (l) Fluorospar.
 - (m) Feldspar.
 - (n) Diatomite.
 - (o) Perlite.
 - (p) Vermiculite.
 - (q) Mica.
 - (r) Kyanite, including Andalusite, Sillimanite, Topaz, and Dumortierite.
- (3) **Permanent Site** – A site where crushing and/or screening will be conducted on a regular basis. A permanent site is a site which is not a **temporary site**.
- (4) **Portable** – Any crushing and screening plant that is mounted on any chassis or skids and may be moved by the application of a lifting or pulling force. In addition, there shall be no cable, chain, turnbuckle, bolt or other means (except electrical connections) by which any piece of equipment is attached or clamped to any anchor, slab, or structure, including bedrock that must be removed prior to the application of a lifting or pulling force for the purpose of transporting the plant.
- (5) **Temporary Site** – A site where portable crushing and/or screening equipment is used to process material that is already located at the site (no new material can be brought onto the site for processing). If there are plans to return to the site or if equipment could be used at the site sporadically to process additional material, the site would be considered a **permanent site**. Examples of a temporary site would be the processing of in-situ stone at a construction site, the removal and replacement of a runway at an airport, or the demolition of a building where the waste products are processed at the site.

MARYLAND DEPARTMENT OF THE ENVIRONMENT
Air and Radiation Management Administration / Air Quality Permits Program
1800 Washington Boulevard, STE 720 Baltimore, MD 21230-1720
(410) 537-3230 • 1-800-633-6101 • www.mde.state.md.us

Mail application to

MDE/ARMA

**1800 Washington Blvd, Suite 720
Baltimore, MD 21230-1720**

Don't forget to:

- ✓ Sign the application
- ✓ Include a sketch or aerial photo of job site
- ✓ Include vendor literature

Air Quality Permit to Construct Application for
**PORTABLE CRUSHING / SCREENING EQUIPMENT
AT TEMPORARY SITES**

1) Applicability

You must check off all the following items to use this application form

- ☐ A finite amount of material already located and generated by operations on the site will be crushed/screened
- ☐ No new material generated by operations on the site will be crushed/screened
- ☐ No material generated off-site will be crushed/screened

You must check off one of the following items to use this application form

- ☐ Material has never been crushed/screened at the site
- ☐ It has been at least three years since material was crushed/screened on the site.

Date materials last crushed / screened at the site: _____

2) Job site location

☐ Check if this is a federal facility

Name: _____ Phone: _____
Street Address: _____
City: _____ State: _____ Zip Code: _____ County: _____

3) Owner/Operator of the equipment

Name: _____ Phone: _____
Mailing Address: _____
City: _____ State: _____ Zip Code: _____

4) Job Description

*Examples: (1) Removal of Tie-Gee department store from South-lawn Mall
(2) Demolition of parking garage at Milton Business Complex*

(Check all that apply)

- ☐ Demolition project (describe) _____
- ☐ Site development – crushing / screening of in-situ stone
- ☐ Waste concrete generated at a concrete batch plant
- ☐ Other processing of finite amount of material generated by operations on-site
(describe) _____

Material to be crushed/screened: _____

Estimated total tons of material to be crushed/screened: _____

Operating schedule

Projected start date: _____ Projected end date: _____

Hours/day: _____ Days/week: _____ Total # of days: _____



5) Equipment Information

Crushers & Screens

Crusher	Screen	Manufacturer / Model	Capacity (tons/hr)
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____
<input type="checkbox"/>	<input type="checkbox"/>	_____	_____

Conveyers

Total number of conveyers on site: _____

Engines

Manufacturer / Model	Horsepower	Diesel	Gasoline	Fuel Usage (gallons/month)
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____
_____	_____	<input type="checkbox"/>	<input type="checkbox"/>	_____

6) Dust Suppression Information

Dust from the equipment, roads, stockpiles, and materials handling operations MUST be controlled

(Check all that apply)

- | | |
|---|---|
| <input type="checkbox"/> Wet suppression on equipment
(crushers and screens) | <input type="checkbox"/> Work practices: |
| <input type="checkbox"/> Wet suppression on stockpiles | <input type="checkbox"/> Avoid overfilling front-end loaders |
| <input type="checkbox"/> Flush / sweep paved roads | <input type="checkbox"/> Minimize drop height of material when loading trucks or stockpiles |
| <input type="checkbox"/> Water on unpaved roads | <input type="checkbox"/> Minimize working of stockpiles especially on windy or dry days |
| <input type="checkbox"/> Truck washing station | <input type="checkbox"/> Remove debris and spillage from on and around the plant |
| | <input type="checkbox"/> Post signs and control speed of all vehicles |
| <input type="checkbox"/> Other (describe) | <input type="checkbox"/> Post signs and control speed of all vehicles |

7) Required Attachments

(Check that they are attached)

- ☐ Vendor literature
☐ Sketch or aerial photograph of the job site

8) Workers Compensation (Environmental article §1-202)

Workers insurance policy or binder number: _____

☐ Check if self employed or otherwise exempt from this requirement

"I CERTIFY UNDER PENALTY OF LAW THAT THE INFORMATION SUBMITTED IN THIS REQUEST FOR COVERAGE IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

Owners Signature

Printed Name & Title

Date