



Mike DeWine, Governor
 Jon Husted, Lt. Governor
 Anne M. Vogel, Director

12/05/2023

Certified Mail

Barbara Nielsen
 Cyprus Amax Minerals Company
 333 North Central Ave
 Phoenix, AZ 85004

| | |
|----|------------------------------------|
| No | TOXIC REVIEW |
| No | SYNTHETIC MINOR TO AVOID MAJOR NSR |
| No | CEMS |
| No | MACT/GACT |
| No | NSPS |
| No | NESHAPS |
| No | NETTING |
| No | MODELING SUBMITTED |
| No | SYNTHETIC MINOR TO AVOID TITLE V |
| No | FEDERALLY ENFORCABLE PTIO (FEPTIO) |
| No | SYNTHETIC MINOR TO AVOID MAJOR GHG |

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE
 Facility ID: 0641000060
 Permit Number: P0134193
 Permit Type: Initial Installation
 County: Jefferson

Dear Permit Holder:

Enclosed please find a final Ohio Environmental Protection Agency (EPA) Air Pollution Permit-to-Install and Operate (PTIO) which will allow you to install, modify, and/or operate the described emissions unit(s) in the manner indicated in the permit. Because this permit contains conditions and restrictions, please read it very carefully. In this letter, you will find the information on the following topics:

- **How to appeal this permit**
- **How to save money, reduce pollution and reduce energy consumption**
- **How to give us feedback on your permitting experience**
- **How to get an electronic copy of your permit**
- **What should you do if you notice a spill or environmental emergency?**

How to appeal this permit

The issuance of this PTIO is a final action of the Director and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of \$70.00, made payable to "Ohio Treasurer Robert Sprague," which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission
 30 East Broad Street, 4th Floor
 Columbus, OH 43215

How to save money, reduce pollution and reduce energy consumption

The Ohio EPA is encouraging companies to investigate pollution prevention and energy conservation. Not only will this reduce pollution and energy consumption, but it can also save you money. If you would like to learn ways you can save money while protecting the environment, please contact our Office of Compliance Assistance and Pollution Prevention at (614) 644-3469. Additionally, all or a portion of the capital expenditures related to installing air pollution control equipment under this permit may be eligible for financing and State tax exemptions through the Ohio Air Quality Development Authority (OAQDA) under Ohio Revised Code Section 3706. For more information, see the OAQDA website: www.ohioairquality.org.

How to give us feedback on your permitting experience

Please complete a survey at www.epa.ohio.gov/survey.aspx and give us feedback on your permitting experience. We value your opinion.

How to get an electronic copy of your permit

This permit can be accessed electronically via the eBusiness Center: Air Services in Microsoft Word format or in Adobe PDF on the Ohio EPA document search website here: <https://epa.ohio.gov/help-center/edocument-search/edocument-search>.

What should you do if you notice a spill or environmental emergency?

Any spill or environmental emergency which may endanger human health or the environment should be reported to the Emergency Response 24-HOUR EMERGENCY SPILL HOTLINE toll-free at (800) 282-9378. Report non-emergency complaints to the appropriate district office or local air agency.

If you have any questions regarding your permit, please contact Ohio EPA DAPC, Southeast District Office at (740)385-8501 or the Office of Compliance Assistance and Pollution Prevention at (614) 644-3469.

Sincerely,



Robert Hodanbosi
Chief, Division of Air Pollution Control

cc: Ohio EPA-SEDO



FINAL

**Division of Air Pollution Control
Permit-to-Install and Operate
for
Cyprus Amax Minerals Company**

| | |
|----------------|----------------------|
| Facility ID: | 0641000060 |
| Permit Number: | P0134193 |
| Permit Type: | Initial Installation |
| Issued: | 12/05/2023 |
| Effective: | 12/05/2023 |
| Expiration: | 12/05/2033 |



Division of Air Pollution Control
Permit-to-Install and Operate
for
Cyprus Amax Minerals Company

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Final Permit-to-Install and Operate
Cyprus Amax Minerals Company
Permit Number: P0134193
Facility ID: 0641000060
Effective Date: 12/05/2023

Authorization

Facility ID: 0641000060
Application Number(s): A0074503
Permit Number: P0134193
Permit Description: Installation PTIO for material handling (excavation, bulldozing, loading/unloading of slag and soil), concrete crushing and increase in plant roadways vehicle miles traveled.
Permit Type: Initial Installation
Permit Fee: \$2,250.00
Issue Date: 12/05/2023
Effective Date: 12/05/2023
Expiration Date: 12/05/2033
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

Cyprus Amax Minerals Company
4243 County Road 74
Cross Creek Twp., OH 43938

of a Permit-to-Install and Operate for the emissions unit(s) identified on the following page.

Ohio Environmental Protection Agency (EPA) District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office
2195 Front St.
Logan, OH 43138
(740)385-8501

The above named entity is hereby granted this Permit-to-Install and Operate for the air contaminant source(s) (emissions unit(s)) listed in this section pursuant to Chapter 3745-31 of the Ohio Administrative Code. Issuance of this permit does not constitute expressed or implied approval or agreement that, if constructed or modified in accordance with the plans included in the application, the described emissions unit(s) will operate in compliance with applicable State and federal laws and regulations.

This permit is granted subject to the conditions attached hereto.

Ohio Environmental Protection Agency

A handwritten signature in black ink that reads "Anne M. Vogel".

Anne M. Vogel
Director

Entered into the Journal of the Director on:

Date: 12/05/2023



Authorization (continued)

Permit Number: P0134193
 Permit Description: Installation PTIO for material handling (excavation, bulldozing, loading/unloading of slag and soil), concrete crushing and increase in plant roadways vehicle miles traveled.

Permits for the following Emissions Unit(s) or groups of Emissions Units are in this document as indicated below:

| | |
|-----------------------------------|--------------------------------|
| Emissions Unit ID: | F001 |
| Company Equipment ID: | PLANT ROADWAYS & PARKING AREAS |
| Superseded Permit Number: | P0113889 |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F005 |
| Company Equipment ID: | Material handling |
| Superseded Permit Number: | |
| General Permit Category and Type: | Not Applicable |
| Emissions Unit ID: | F006 |
| Company Equipment ID: | Concrete crusher |
| Superseded Permit Number: | |
| General Permit Category and Type: | Not Applicable |

List of Commonly Used Abbreviations

| | | |
|---|--|---|
| AP-42 = U.S. EPA's Compilation of Air Pollution Emissions Factors | IBR = Incorporation by Reference | PER = Permit Evaluation Report |
| ASTM = American Society for Testing and Materials | ID = Identification Number (typically referring to a facility ten-digit ID number) | PM = particulate matter |
| BACT = Best Available Control Technology | LAER = Lowest Achievable Emission Rate | PM ₁₀ = particulate matter with an aerodynamic diameter less than or equal to 10 microns |
| BAT = Best Available Technology | lb(s)/hr = pound(s) per hour | PM _{2.5} = particulate matter with an aerodynamic diameter less than or equal to 2.5 microns |
| CAA = Clean Air Act (1955, 70, 77, 80) | LDAR = Leak Detection and Repair | ppb = parts per billion |
| CAAA = Clean Air Act Amendments (1990) | LPG = liquefied petroleum gas/propane | ppm = parts per million |
| CAM = Compliance Assurance Monitoring | MACT = Maximum Achievable Control Technology | PSD = Prevention of Significant Deterioration |
| CEM = Continuous Emissions Monitor | MAGLC = Maximum Acceptable Ground Level Concentration | psi = pounds per square inch |
| CEMS = Continuous Emissions Monitoring System | mg/m ³ = milligrams per cubic meter | psia = pounds per square inch absolute |
| CFC = chlorofluorocarbon | MM = million | PTE = Potential-to-Emit |
| CFR = Code of Federal Regulations | MMBtu = million British Thermal Units | PTI = Permit-to-Install |
| CH ₄ = methane | MON = Miscellaneous Organic Chemical Manufacturing NESHAP | PTIO = Permit-to-Install and Operate |
| CI = compression ignition | MSDS = Material Safety Data Sheet | PTO = Permit-to-Operate |
| CO = carbon monoxide | MSW = Municipal Solid Waste | PWR = process weight rate |
| CO ₂ = carbon dioxide | NAAQS = National Ambient Air Quality Standard | RACM = Reasonably Available Control Measures |
| COM = Continuous Opacity Monitor | NESHAP = National Emission Standard for Hazardous Air Pollutants | RACT = Reasonably Available Control Technology |
| DAPC = Division of Air Pollution Control | NG = natural gas | RATA = Relative Accuracy Test Audit |
| DO/LAA = District Office/Local Air Agency | ng/m ³ = nanograms per cubic meter | RTO = regenerative thermal oxidizer |
| dscf = dry standard cubic foot | NH ₃ = ammonia | SB265 = Senate Bill 265 |
| EAC = Emissions Activity Category | NMHC = non-methane hydrocarbons | scfm = standard cubic feet per minute |
| eDocs = Electronic Documents Database | NMOC = non-methane organic compound | SI = spark ignition |
| ERAC = Environmental Review Appeals Commission | NNSR = Nonattainment New Source Review | SIP = State Implementation Plan |
| ESP = electrostatic precipitator | NO = nitrogen oxide | SM = Synthetic Minor |
| EU = Emissions Unit | NO ₂ = nitrogen dioxide | SO ₂ = sulfur dioxide |
| FEPTIO = Federally Enforceable Permit-to-Install and Operate | NO _x = nitrogen oxides | SOB = Statement of Basis |
| FER = Fee Emissions Report | NSPS = New Source Performance Standard | SSMP = Startup, Shutdown and Malfunction Plan |
| FR = Federal Register | NSR = New Source Review | T & C = Term and Condition |
| GACT = Generally Achievable Control Technology | NTV = Non-Title V | TDS = total dissolved solids |
| GHG = greenhouse gases | O&M = Operation and Maintenance | TLV = Threshold Limit Value |
| gr = grains | O ₃ = ozone | TO = thermal oxidizer |
| gr/dscf = grains per dry standard cubic foot | OAC = Ohio Administrative Code | TPH = ton(s) per hour |
| H ₂ S = hydrogen sulfide | OC = organic compound | TPY = ton(s) per year |
| H ₂ SO ₄ = sulfuric acid | OEPA = Ohio Environmental Protection Agency | TSP = total suspended particulates |
| HAP = hazardous air pollutant | ORC = Ohio Revised Code | VE = visible emissions |
| HCl = hydrochloride | Pb = lead | VMT = vehicle miles traveled |
| HF = hydrogen fluoride | PBR = Permit-By-Rule | VOC = volatile organic compound |
| Hg = mercury | PCB = polychlorinated biphenyl | WPP = Work Practice Plan |
| HON = Synthetic Organic Chemical Manufacturing NESHAP | PE = particulate emissions | µg/m ³ = micrograms per cubic meter |
| hp = horsepower | PEMS = Predictive Emissions Monitoring System | |
| HVLP = high volume, low pressure | | |



Final Permit-to-Install and Operate
Cyprus Amax Minerals Company
Permit Number: P0134193
Facility ID: 0641000060
Effective Date: 12/05/2023

A. Standard Terms and Conditions

1. What does this permit-to-install and operate (PTIO) allow me to do?

This permit allows you to install and operate the emissions unit(s) identified in this PTIO. You must install and operate the unit(s) in accordance with the application you submitted and all the terms and conditions contained in this PTIO, including emission limits and those terms that ensure compliance with the emission limits (for example, operating, recordkeeping and monitoring requirements).

2. Who is responsible for complying with this permit?

The person identified on the "Authorization" page, above, is responsible for complying with this permit until the permit is revoked, terminated, or transferred. "Person" means a person, firm, corporation, association, or partnership. The words "you," "your," or "permittee" refer to the "person" identified on the "Authorization" page above.

The permit applies only to the emissions unit(s) identified in the permit. If you install or modify any other equipment that requires an air permit, you must apply for an additional PTIO(s) for these sources.

3. What records must I keep under this permit?

You must keep all records required by this permit, including monitoring data, test results, strip-chart recordings, calibration data, maintenance records, and any other record required by this permit for five years from the date the record was created. You can keep these records electronically, provided they can be made available to Ohio EPA during an inspection at the facility. Failure to make requested records available to Ohio EPA upon request is a violation of this permit requirement.

4. What are my permit fees and when do I pay them?

There are two fees associated with permitted air contaminant sources in Ohio:

- PTIO fee. This one-time fee is based on a fee schedule in accordance with Ohio Revised Code (ORC) section 3745.11 or based on a time and materials charge for permit application review and permit processing if required by the Director.

You will be sent an invoice for this fee after you receive this PTIO and payment is due within 30 days of the invoice date. You are required to pay the fee for this PTIO even if you do not install or modify your operations as authorized by this permit.

- Annual emissions fee. Ohio EPA will assess a separate fee based on the total annual emissions from your facility. You self-report your emissions in accordance with Ohio Administrative Code (OAC) Chapter 3745-78. This fee assessed is based on a fee schedule in ORC section 3745.11 and funds Ohio EPA's permit compliance oversight activities. For facilities that are permitted as synthetic minor sources, the fee schedule is adjusted annually for inflation. Ohio EPA will notify you when it is time to report your emissions and to pay your annual emission fees.

5. When does my PTIO expire, and when do I need to submit my renewal application?

This permit expires on the date identified at the beginning of this permit document (see "Authorization" page above) and you must submit a renewal application to renew the permit. Ohio EPA will send a renewal notice to you approximately six months prior to the expiration date of this permit. However, it is very important that you submit a complete renewal permit application (either electronically through Ohio

EPA's eBusiness Center: Air Services web service or postmarked prior to expiration of this permit) even if you do not receive the renewal notice.

If a complete renewal application is submitted before the expiration date, Ohio EPA considers this a timely application for purposes of ORC section 119.06, and you are authorized to continue operating the emissions unit(s) covered by this permit beyond the expiration date of this permit until final action is taken by Ohio EPA on the renewal application.

6. What happens to this permit if my project is delayed or I do not install or modify my source?

This PTIO expires 18 months after the issue date identified on the "Authorization" page above unless otherwise specified if you have not (1) started constructing the new or modified emission sources identified in this permit, or (2) entered into a binding contract to undertake such construction. This deadline can be extended once by 12 months, provided you apply to Ohio EPA for this extension within a reasonable time before the 18-month period has ended and you can show good cause for any such extension.

7. What reports must I submit under this permit?

An annual permit evaluation report (PER) is required in addition to any malfunction reporting required by OAC rule 3745-15-06 or other specific rule-based reporting requirement identified in this permit. Your PER due date is identified in the Authorization section of this permit.

8. If I am required to obtain a Title V operating permit in the future, what happens to the operating provisions and permit evaluation report (PER) obligations under this permit?

If you are required to obtain a Title V permit under OAC Chapter 3745-77 in the future, the permit-to-operate portion of this permit will be superseded by the issued Title V permit. From the effective date of the Title V permit forward, this PTIO will effectively become a PTI (permit-to-install) in accordance with OAC rule 3745-31-02(B). The following terms and conditions of this permit will no longer be applicable after issuance of the Title V permit: Section B, Term 1.b) and Section C, for each emissions unit, Term a)(2).

The PER requirements in this permit remain effective until the date the Title V permit is issued and is effective and cease to apply after the effective date of the Title V permit. The final PER obligation will cover operations up to the effective date of the Title V permit and must be submitted on or before the submission deadline identified in this permit on the last day prior to the effective date of the Title V permit.

9. What are my obligations when I perform scheduled maintenance on air pollution control equipment?

You must perform scheduled maintenance of air pollution control equipment in accordance with OAC rule 3745-15-06(A). If scheduled maintenance requires shutting down or bypassing any air pollution control equipment, you must also shut down the emissions unit(s) served by the air pollution control equipment during maintenance, unless the conditions of OAC rule 3745-15-06(A)(3) are met. Any emissions that exceed permitted amount(s) under this permit (unless specifically exempted by rule) must be reported as deviations in the annual permit evaluation report (PER), including nonexempt excess emissions that occur during approved scheduled maintenance.

10. Do I have to report malfunctions of emissions units or air pollution control equipment? If so, how must I report?

If you have a reportable malfunction of any emissions unit(s) or any associated air pollution control system, you must report this to the Ohio EPA DAPC, Southeast District Office in accordance with OAC rule 3745-15-06(B). Malfunctions that must be reported are those that result in emissions that exceed permitted emission levels. It is your responsibility to evaluate control equipment breakdowns and operational upsets to determine if a reportable malfunction has occurred.

If you have a malfunction but determine that it is not a reportable malfunction under OAC rule 3745-15-06(B), it is recommended that you maintain records associated with control equipment breakdown or process upsets. Although it is not a requirement of this permit, Ohio EPA recommends that you maintain records for non-reportable malfunctions.

11. Can Ohio EPA or my local air agency inspect the facility where the emission unit(s) is/are located?

Yes. Under Ohio law, the Director or his/her authorized representative may inspect the facility, conduct tests, examine records or reports to determine compliance with air pollution laws and regulations and the terms and conditions of this permit. You must provide, within a reasonable time, any information Ohio EPA requests either verbally or in writing.

12. What happens if one or more emissions units operated under this permit is/are shut down permanently?

Ohio EPA can terminate the permit terms associated with any permanently shut down emissions unit. "Shut down" means the emissions unit has been physically removed from service or has been altered in such a way that it can no longer operate without a subsequent "modification" or "installation" as defined in OAC Chapter 3745-31.

You should notify Ohio EPA of any emissions unit that is permanently shut down by submitting a certification that identifies the date on which the emissions unit was permanently shut down. The certification must be submitted by an authorized official from the facility. You cannot continue to operate an emission unit once the certification has been submitted to Ohio EPA by the authorized official.

You must comply with all recordkeeping and reporting for any permanently shut down emissions unit in accordance with the provisions of the permit, regulations or laws that were enforceable during the period of operation, such as the requirement to submit a PER, air fee emission report, or malfunction report. You must also keep all records relating to any permanently shut down emissions unit, generated while the emissions unit was in operation, for at least five years from the date the record was generated.

Again, you cannot resume operation of any emissions unit certified by the authorized official as being permanently shut down without first applying for and obtaining a permit pursuant to OAC Chapter 3745-31.

13. Can I transfer this permit to a new owner or operator?

You can transfer this permit to a new owner or operator. If you transfer the permit, the new owner or operator must follow the procedures in OAC Chapter 3745-31-07, including notifying Ohio EPA or the



Final Permit-to-Install and Operate

Cyprus Amax Minerals Company

Permit Number: P0134193

Facility ID: 0641000060

Effective Date: 12/05/2023

local air agency of the change in ownership or operator within thirty days of the transfer date. Any transferee of this permit shall assume the responsibilities of the transferor permit holder.

14. Does compliance with this permit constitute compliance with OAC rule 3745-15-07, "air pollution nuisance"?

This permit and OAC rule 3745-15-07 prohibit operation of the air contaminant source(s) regulated under this permit in a manner that causes a nuisance. Ohio EPA can require additional controls or modification of the requirements of this permit through enforcement orders or judicial enforcement action if, upon investigation, Ohio EPA determines existing operations are causing a nuisance.

15. What happens if a portion of this permit is determined to be invalid?

If a portion of this permit is determined to be invalid, the remainder of the terms and conditions remain valid and enforceable. The exception is where the enforceability of terms and conditions are dependent on the term or condition that was declared invalid.



Final Permit-to-Install and Operate
Cyprus Amax Minerals Company
Permit Number: P0134193
Facility ID: 0641000060
Effective Date: 12/05/2023

B. Facility-Wide Terms and Conditions



Final Permit-to-Install and Operate

Cyprus Amax Minerals Company

Permit Number: P0134193

Facility ID: 0641000060

Effective Date: 12/05/2023

1. This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - a) For the purpose of a permit-to-install document, the facility-wide terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (1) None.
 - b) For the purpose of a permit-to-operate document, the facility-wide terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (1) None.



Final Permit-to-Install and Operate
Cyprus Amax Minerals Company
Permit Number: P0134193
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Effective Date: 12/05/2023

C. Emissions Unit Terms and Conditions

1. F001, Plant Roadways and Parking Areas

Operations, Property and/or Equipment Description:

Plant Roadways and Parking Areas

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. None.

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|----|-------------------------------|---|
| a. | OAC rule 3745-31-05(A)(3) | Develop and implement a site-specific work practice plan designed as described in paragraph d)(1) below to minimize or eliminate fugitive dust emissions. |
| b. | OAC rule 3745-17-07(B)(5) | The emissions limitation established in this rule are less stringent than the one established under OAC rule 3745-17-13(B)(1). |
| c. | OAC rule 3745-17-08(B) | See b)(2)a. |
| d. | OAC rule 3745-17-13(B)(1) | No visible PE from any unpaved roadway or parking area except for three minutes during any sixty-minute observation period. |

(2) Additional Terms and Conditions

a. The permittee shall employ reasonably available control measures to minimize or eliminate visible PE of fugitive dust by:

- i. The periodic application of asphalt, oil (excluding any used oil as defined in paragraph (A)(12) of rule 3745-279-01 of the Administrative Code), water or other suitable dust suppression chemicals on gravel roads and parking lots.
 - ii. The prompt removal, in such a manner as to minimize or prevent resuspension, earth and/or material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
 - iii. Requiring open-bodied vehicles transporting materials likely to become airborne to have such materials covered at all times if the control measure is necessary for the materials being transported.
- c) Operational Restrictions
- (1) None.
- d) Monitoring and/or Recordkeeping Requirements
- (1) Work Practice Plan

The permittee shall develop and implement a site-specific work practice plan designed to minimize or eliminate fugitive dust from the permittee's unpaved roadways and parking areas. This work practice plan shall include, at a minimum, the following elements:

- a. An identification of each roadway or parking area, or segment of roadway or parking area, for which the plan applies. The permittee can select whether to develop a plan based on segments or entire roads.
- b. A determination of the frequency that each roadway, parking area or segment will be inspected to determine if additional control measures are needed. The frequency of inspection can either be common for all segments of the roadway or parking areas or may be identified separately for various segments of the roadway or parking areas.
- c. The identification of the record keeping form/record that will be used to track the inspection and treatment of the roadways. This form/record should include, at a minimum, the following elements:
 - i. Roadway, parking area, or segment inspected;
 - ii. Date inspected;
 - iii. Name of employee responsible for inspection;
 - iv. Result of the inspection (needs treated or does not need treated);
 - v. A description of why no treatment was needed;
 - vi. Date treated;

- vii. Name of employee responsible for roadway, parking area, or segment treatment; and
 - viii. Method used to treat the roadway, parking area, or segment.
- d. A description of how and where the records shall be maintained.

The permittee shall begin using the Work Practice Plan within 30 days from the date Ohio EPA approved the initial plan. As needs warrant, the permittee can modify the Work Practice Plan. The permittee shall submit a copy of proposed revisions to the Work Practice Plan to the appropriate District Office or Local Air Agency (DO/LAA) for review and approval. The permittee can begin using the revised Work Practice Plan once the appropriate DO/LAA has approved its use.

(2) Work Practice Plan Inspections

Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas at frequencies described in the Work Practice Plan. The purpose of the inspections is to determine the need for implementing control measures. The inspections shall be performed during representative, normal traffic conditions. No inspection shall be necessary for a roadway or parking area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

(3) Work Practice Plan Record Keeping

The permittee shall maintain records of the following information:

- a. The records required to be collected under the Work Practice Plan, and
- b. The date and reason any element of the Work Practice Plan was not implemented.

The permittee shall maintain these records in accordance with the Standard Terms and Conditions of Part A of this permit.

e) Reporting Requirements

- (1) Within 30 days from the final issuance of this permit, the permittee shall submit their proposed Work Practice Plan to the appropriate DO/LAA.
- (2) The permittee shall submit annual deviation reports concerning any failure to implement the Work Practice Plan. These reports shall be submitted as part of the annual Permit Evaluation Report (PER).
- (3) All applications, notifications or reports required *in writing* are to be submitted through Ohio EPA's eBusiness Center: Air Services online web portal. Hardcopy submissions will be accepted on an as-needed basis if the permittee cannot submit the required documents through Air Services. In the event of a hardcopy submission, the post-marked date, or the

date the document is delivered in person will be recognized as the date submitted. Electronic submittal of applications, notifications or reports to Ohio EPA fulfills the requirement to submit information to the Director, the DO/LAA, and/or any other individual or organization identified as a recipient unless otherwise specified in this permit. Consistent with OAC rule 3745-15-03, the application, notification or report is considered *submitted* on the date the submittal is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

- (4) The permittee shall submit an annual PER to Ohio EPA by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emission Limitation:

No visible PE from any unpaved roadway or parking area except for three minutes during any sixty-minute observation period.

Applicable Compliance Method:

If required, compliance with the applicable visible PE limitation listed above shall be determined in accordance with Test Method 22 as set forth in "Appendix on Test Methods" in 40 CFR Part 60 ("Standards of Performance for New Stationary Sources"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(d) of OAC rule 3745-17-03.

g) Miscellaneous Requirements

- (1) None.

2. F005, Material handling

Operations, Property and/or Equipment Description:

Material handling with excavation, truck loading/dumping, bulldozing

a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

(1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.

a. g)(1).

(2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.

a. None.

b) Applicable Emissions Limitations and/or Control Requirements

(1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|----|-------------------------------|---|
| a. | OAC rule 3745-31-05(A)(3) | Develop and implement a site-specific work practice plan designed as described in paragraph d)(1) below to minimize or eliminate fugitive dust emissions. |
| b. | OAC rule 3745-17-07(B)(1) | Visible particulate emissions from the material handling operations shall not exceed twenty percent opacity as a three-minute average. |
| c. | OAC rule 3745-17-07(B)(6) | No visible particulate emissions from any storage pile except for a period of time not to exceed thirteen minutes during a sixty-minute observation period. |
| d. | OAC rule 3745-17-08(B) | Reasonably available control measures that are sufficient to minimize or eliminate the visible emissions of fugitive dust. See b)(2)a. through b)(2)c. |

(2) Additional Terms and Conditions

- a. The permittee has committed to employ the following best/reasonably available control measures for this emissions unit for purposes of ensuring compliance with the above-mentioned applicable requirements:

| Material Handling Operation | Control Measures |
|------------------------------------|---|
| Truck loading/unloading operations | Reduced drop height |
| Bulldozing | Reclamation/vegetation practices; water application as necessary |
| Slag/soil removal by truck | Minimize area of land disturbance; water application as necessary |

- b. For each material handling operation that is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during operation of the material handling process until further observation confirms that use of the control measures is unnecessary.
- c. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC 3745-31-05(A)(3) and/or 3745-17-08(B).

c) Operational Restrictions

- (1) The facility will be limited to 12,770 hours per year for slag and soil bulldozing.

d) Monitoring and/or Recordkeeping Requirements

(1) Work Practice Plan

The permittee shall develop and implement a site-specific work practice plan designed to minimize or eliminate fugitive dust from the permittee's material storage piles. This work practice plan shall include, at a minimum, the following elements:

- a. An identification of each storage pile or each storage pile area for which the plan applies;
- b. A determination of the frequency that each storage pile or each storage pile area will be inspected to determine if additional control measures are needed. The frequency of inspection can either be common for all storage piles or may be identified separately for various storage pile areas.
- c. The identification of the record keeping form/record that will be used to track the inspection and treatment of the storage piles. This form/record should include, at a minimum, the following elements:

- i. Storage pile or storage pile area inspected;
 - ii. Date inspected;
 - iii. Name of employee responsible for the inspection;
 - iv. Result of the inspection (needs treated or does not need treated);
 - v. A description of why no treatment was needed;
 - vi. Date treated;
 - vii. Name of employee responsible for treatment of the storage pile or storage pile area; and
 - viii. Method used to treat the storage pile or storage pile area.
- d. A description of how and where the records shall be maintained.

The permittee shall begin using the Work Practice Plan within 30 days from the date Ohio EPA approved the initial plan. As needs warrant, the permittee shall modify the Work Practice Plan. The permittee shall submit a copy of proposed revisions to the Work Practice Plan to the appropriate District Office or local air agency (DO/LAA) for review and approval. The permittee can begin using the revised Work Practice Plan once the appropriate DO/LAA has approved its use.

(2) Work Practice Plan Inspections

Except as otherwise provided in this section, the permittee shall perform inspections of each of the storage piles or storage pile areas at frequencies described in the Work Practice Plan. The purpose of the inspections is to determine the need for implementing control measures. The inspections shall be performed during representative, normal storage pile operating conditions. No inspection shall be necessary for a storage pile or storage pile area that is covered with snow and/or ice or if precipitation has occurred that is sufficient for that day to ensure compliance with the above-mentioned applicable requirements. Any required inspection that is not performed due to any of the above-identified events shall be performed as soon as such event(s) has (have) ended, except if the next required inspection is within one week.

(3) The permittee shall maintain records of the following information:

- a. The records required to be collected under the Work Practice Plan, and
- b. The date and reason any element of the Work Practice Plan was not implemented.

(4) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

| <u>Material Handling Operations</u> | <u>Minimum Inspection Frequency</u> |
|-------------------------------------|-------------------------------------|
| Truck loading/unloading | Daily |
| Bulldozing | Daily |
| Slag/soil removal by truck | Daily |

(5) The above-mentioned inspections shall be performed only on days the emissions unit is in operation. The permittee shall perform daily observations for any visible particulate emissions from the emissions unit, other than water vapor. The presence or absence of any visible emissions shall be recorded in an operations log. When visible emissions are observed in excess of the allowable opacity rate(s), corrective actions shall be taken to correct the problem and these action(s) shall be recorded in the operations log.

- (6) The permittee shall maintain daily records of the following information:
- the date and reason any required inspection was not performed;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - the dates the control measure(s) was (were) implemented; and
 - on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(6)d. shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

(7) Specific additional control measures shall be determined by the permittee. Such additional control measures may include increased water application, use of chemical dust suppressant, or shutdown of operations. The use of additional control measures shall, at all times, comply with all air, surface water, ground water, solid waste, and hazardous waste laws and regulations.

e) Reporting Requirements

- Within 30 days from the final issuance of this permit, the permittee shall submit their proposed Work Practice Plan to the appropriate DO/LAA.
- The permittee shall submit annual deviation reports concerning any failure to implement the Work Practice Plan. These reports shall be submitted as part of the annual Permit Evaluation Report (PER).
- All applications, notifications or reports required *in writing* are to be submitted through Ohio EPA's eBusiness Center: Air Services online web portal. Hardcopy submissions will be accepted on an as-needed basis if the permittee cannot submit the required documents through Air services. In the event of a hardcopy submission, the post-marked date, or the date the document is delivered in person will be recognized as the date submitted.

Electronic submittal of applications, notifications or reports to Ohio EPA fulfills the requirement to submit information to the Director, the DO/LAA, and/or any other individual or organization identified as a recipient of unless otherwise specified in this permit. Consistent with OAC rule 3745-15-03, the application, notification or report is considered *submitted* on the date the submittal is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.

- (4) The permittee shall submit an annual PER to Ohio EPA by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

- a. Emissions Limitation:

Visible particulate emissions from the material handling operations shall not exceed 20% opacity as a three-minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 22.

- b. Emissions Limitation:

No visible particulate emissions from any storage pile except for a period of time not to exceed thirteen minutes during a sixty-minute observation period.

Applicable Compliance Method:

Compliance with the visible particulate emissions limitations for the storage piles identified above shall be determined in accordance with Test Method 22 as set forth in Appendix on Test Methods in 40 CFR Part 60 (Standards of Performance for New Stationary Sources).

g) Miscellaneous Requirements

- (1) Modeling to demonstrate compliance with the *Toxic Air Contaminant Statute*, ORC 3704.03(F)(4)(b), was not necessary because the EU's maximum annual emissions for each toxic air contaminant, as defined in OAC rule 3745-114-01, will be less than one TPY. OAC Chapter 3745-31 requires a permittee to apply for and obtain a new or modified PTIO prior to making a *modification* as defined by OAC rule 3745-31-01. The permittee is hereby advised that changes, in the composition of the materials or use of new materials, that would cause the emissions of any toxic air contaminant to increase to above one TPY may require the permittee to apply for and obtain a new PTIO.

3. F006, Concrete crusher

Operations, Property and/or Equipment Description:

Crusher for concrete infrastructure removal

- a) This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).
 - (1) For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - a. None.
 - (2) For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - a. b)(1)d., b)(1)e., d)(1) – d)(5), e)(1), f)(1), f)(2)b. and g)(1).
- b) Applicable Emissions Limitations and/or Control Requirements
 - (1) The specific operation(s), property, and/or equipment that constitute each emissions unit along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures are identified below. Emissions from each unit shall not exceed the listed limitations, and the listed control measures shall be specified in narrative form following the table.

| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|----|---|--|
| a. | OAC rule 3745-31-05(A)(3)(a)(ii) | The BAT requirements under 31-05(A)(3) do not apply to the PM _{10/2.5} emissions from this air contaminant source since the uncontrolled PTE is less than 10 TPY. |
| b. | OAC rule 3745-17-07(B)(1) | Visible particulate emissions from the concrete crusher shall not exceed 20% as a three-minute average. |
| c. | OAC rule 3745-17-08(B) | Reasonably available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust. See b)(2)a. through b)(2)c. |
| d. | 40 CFR Part 60, Subpart OOO (40 CFR 60.670 – 60.676) [In accordance with 40 CFR 60.670(a)(1) and 60.670(e), this emissions unit is a fixed nonmetallic mineral processing plant with a | Visible particulate emissions from the concrete crusher shall not exceed 12%, as a six-minute average. [40 CFR 60.672(b), Table 3 of 40 CFR Part 60 Subpart OOO] |



| | Applicable Rules/Requirements | Applicable Emissions Limitations/Control Measures |
|----|---|---|
| | capacity over 25 TPH and commenced construction after August 31, 1983]. | See d)(1) – d)(5), e)(1), f)(1), f)(2)b., and g)(1). |
| e. | 40 CFR 60.1 – 19 [40 CFR 60.670(f)] | Table 1 of Subpart OOO of 40 CFR Part 60 – Applicability of General Provisions to Subpart OOO, specifies the provisions of Subpart A that apply to owners and operators of affected facilities subject to this subpart or that apply with certain exceptions. |

(2) Additional Terms and Conditions

- a. The permittee has committed to employ the following best/reasonably available control measures for this emissions unit for purposes of ensuring compliance with the above-mentioned applicable requirements:

| Material Handling Operation | Control Measures |
|-----------------------------|---|
| Crushing | Wet application, as necessary*, or total enclosures |

*if at any time the moisture content of the material processed or handled is not sufficient to meet the above applicable requirements, the permittee shall employ a wet suppression control system to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- b. If the crushing operation is not adequately enclosed, the above-identified control measures shall be implemented if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measures are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measures shall continue during the operation of the crushing process until further observation confirms that use of the control measures is unnecessary.
- c. Implementation of the above-mentioned control measure(s) in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05(A)(3) and/or 3745-17-08(B).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall comply with the following applicable monitoring and recordkeeping requirements under 40 CFR Part 60 Subpart OOO, including the following sections:

| | |
|--------|---|
| 60.674 | (b): monthly inspections of wet suppression spray nozzles and corrective actions; and (b)(2): alternative controls |
| 60.676 | (b)(1): monthly inspections and corrective actions logbook |

- (2) Except as otherwise provided in this section, for concrete crushing operations that are not adequately enclosed, the permittee shall perform visible emission inspections of such operations during representative, normal operating conditions in accordance with the following minimum frequencies:

| <u>Crushing Operations</u> | <u>Minimum Inspection Frequency</u> |
|----------------------------|-------------------------------------|
| Crushing | Daily |

- (3) The above-mentioned inspection(s) shall be performed only on days the emissions unit is in operation. The permittee shall perform daily observations for any visible particulate emissions from the emissions unit, other than water vapor. The presence or absence of any visible emissions shall be recorded in an operations log. When the visible emissions are observed in excess of the allowable opacity rate(s), corrective actions shall be taken to correct the problem and these action(s) shall be recorded in the operations log.

- (4) The permittee shall maintain daily records of the following information:
- the date and reason any required inspection was not performed;
 - the date of each inspection where it was determined by the permittee that it was necessary to implement the control measure(s);
 - the dates the control measure(s) was (were) implemented; and
 - on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

The information in d)(4)d. shall be kept separately for each aggregate processing operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

- (5) Specific additional control measures shall be determined by the permittee. Such additional control measures may include increased water application, use of chemical dust suppressant, or shutdown of operations. The use of additional control measures shall, at all times, comply with all air, surface water, ground water, solid waste, and hazardous waste laws and regulations.

e) Reporting Requirements

- (1) The permittee shall comply with the following applicable reporting requirements under 40 CFR Part 60 Subpart OOO, including the following sections:

| | |
|--------|---|
| 60.676 | (f): written performance test results; (h): construction commencement date and notification waiver; (i)(1): notification of initial startup date postmarked within 15 days; and (k): report submission to delegated authority |
|--------|---|

- (2) All applications, notifications or reports required *in writing* are to be submitted through Ohio EPA’s eBusiness Center: Air Services online web portal. Hardcopy submissions will be accepted on an as-needed basis if the permittee cannot submit the required documents through Air Services. In the event of a hardcopy submission, the post-marked date, or the date the document is delivered in person will be recognized as the date submitted. Electronic submittal of applications, notifications or reports to Ohio EPA fulfills the requirement to submit information to the Director, the DO/LAA, and/or any other individual or organization identified as a recipient unless otherwise specified in this permit. Consistent with OAC rule 3745-15-03, the application, notification or report is considered *submitted* on the date the submittal is successful using a valid electronic signature. Signature by the signatory authority may be represented as provided through procedures established in Air Services.
- (3) The permittee shall submit an annual PER to Ohio EPA by the due date identified in the Authorization section of this permit. The PER shall cover a reporting period of no more than 12 months for each air contaminant source identified in this permit.

f) Testing Requirements

- (1) The permittee shall comply with the following applicable requirements under 40 CFR Part 60 Subpart OOO, including the following sections:

| | |
|--------|--|
| 60.675 | (a): test methods [pursuant to 40 CFR 60.8] (c): additional test procedures [pursuant to 40 CFR 60.672]; (e): alternative methods; and (g): testing notifications |
|--------|--|

(2) Compliance with the Emissions Limitations and/or Control Requirements specified in section b) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

Visible particulate emissions from the concrete crusher shall not exceed 20% as a three-minute average.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 22.

b. Emissions Limitation:

Fugitive PM₁₀ emissions from the concrete crusher shall not exceed 12%, as a six-minute average.

Applicable Compliance Method:

Compliance shall be demonstrated using Method 9 of 40 CFR Part 60, Appendix A, and the procedures specified in 40 CFR Part 60 Subpart OOO, section 60.675.

g) Miscellaneous Requirements

(1) Testing shall be conducted in accordance with the provisions of 40 CFR Part 60 Subpart A, section 60.8 and 40 CFR Part 60 Subpart OOO, section 60.675 in accordance with the following requirements:

a. The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, by no later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emissions rates for particulate emissions.

b. The following test methods shall be employed to demonstrate compliance with the allowable visible emissions rates:

i. Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

c. The test(s) shall be conducted under those representative conditions that challenge to the fullest extent possible a facility's ability to meet the applicable emissions limits and/or control requirements, unless otherwise specified or approved by the appropriate Ohio EPA District Office or local air agency. Although this generally consists of operating the emissions unit at its maximum material input/production rates and results in the highest emission rate of the tested pollutant, there may be circumstances where a lower emissions loading is deemed

the most challenging scenario. Failure to test under these conditions is justification for not accepting the test results as a demonstration of compliance.

- d. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the appropriate Ohio EPA District Office or local air agency. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Ohio EPA District Office's or local air agency's refusal to accept the results of the emission test(s).
- e. Personnel from the appropriate Ohio EPA District Office or local air agency shall be permitted to witness the test(s), examine testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.
- f. A comprehensive written report on the results of the emissions test(s) shall be signed by the person or persons responsible for the tests and submitted to the appropriate Ohio EPA District Office or local air agency within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the appropriate Ohio EPA District Office or local air agency.