



Environmental  
Protection Agency

John R. Kasich, Governor  
Mary Taylor, Lt. Governor  
Scott J. Nally, Director

9/2/2011

Drake Prouty  
SIDWELL MATERIALS CEC - MINYU CRUSHER  
4620 Limestone Valley Rd  
Zanesville, OH 43701

RE: FINAL AIR POLLUTION PERMIT-TO-INSTALL AND OPERATE

Facility ID: 0660950013  
Permit Number: P0090106  
Permit Type: Renewal  
County: Muskingum

Certified Mail

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

Dear Permit Holder:

Enclosed please find a final 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. Please complete a survey at [www.epa.ohio.gov/dapc/permitsurvey.aspx](http://www.epa.ohio.gov/dapc/permitsurvey.aspx) and give us feedback on your permitting experience. We value your opinion.

The issuance of this PTI 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 Josh Mandel," 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  
309 South Fourth Street, Room 222  
Columbus, OH 43215

If you have any questions, 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. This permit can be accessed electronically on the DAPC Web page, [www.epa.ohio.gov/dapc](http://www.epa.ohio.gov/dapc), by clicking the "Issued Air Pollution Control Permits" link.

Sincerely,

Michael W. Ahern, Manager  
Permit Issuance and Data Management Section, DAPC

Cc: Ohio EPA-SEDO





**FINAL**

**Division of Air Pollution Control  
Permit-to-Install and Operate  
for  
SIDWELL MATERIALS CEC - MINYU CRUSHER**

Facility ID:	0660950013
Permit Number:	P0090106
Permit Type:	Renewal
Issued:	9/2/2011
Effective:	9/2/2011
Expiration:	9/2/2016





Division of Air Pollution Control
Permit-to-Install and Operate
for
SIDWELL MATERIALS CEC - MINYU CRUSHER

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## Authorization

Facility ID: 0660950013  
Application Number(s): A0021398, A0021399, A0021400  
Permit Number: P0090106  
Permit Description: Permit to Install/Operate renewal for Paved and Unpaved Roadways, Storage Piles, and a 200 TPH Minyu Jaw Crusher and attached 230 HP diesel generator.  
Permit Type: Renewal  
Permit Fee: \$0.00  
Issue Date: 9/2/2011  
Effective Date: 9/2/2011  
Expiration Date: 9/2/2016  
Permit Evaluation Report (PER) Annual Date: Jan 1 - Dec 31, Due Feb 15

This document constitutes issuance to:

SIDWELL MATERIALS CEC - MINYU CRUSHER  
4620 Limestone Valley Rd  
Zanesville, OH 43701

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

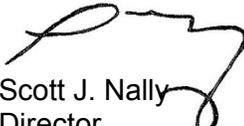
Ohio EPA District Office or local air agency responsible for processing and administering your permit:

Ohio EPA DAPC, Southeast District Office  
2195 Front Street  
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

  
Scott J. Nally  
Director



## Authorization (continued)

Permit Number: P0090106  
Permit Description: Permit to Install/Operate renewal for Paved and Unpaved Roadways, Storage Piles, and a 200 TPH Minyu Jaw Crusher and attached 230 HP diesel generator.

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

<b>Emissions Unit ID:</b>	<b>F001</b>
Company Equipment ID:	Portable Roadways
Superseded Permit Number:	06-07966
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>F002</b>
Company Equipment ID:	Portable Storage Piles
Superseded Permit Number:	06-07966
General Permit Category and Type:	Not Applicable
<b>Emissions Unit ID:</b>	<b>P901</b>
Company Equipment ID:	CEC-Minyu Jaw Crushe
Superseded Permit Number:	06-07966
General Permit Category and Type:	Not Applicable



## **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. Unless otherwise specified, facilities subject to one or more synthetic minor restrictions must use Ohio EPA's "Air Services" to submit annual emissions associated with this permit requirement. 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 (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 by up to 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 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 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 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<sup>1</sup> 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 emissions 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 shutdown 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.

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<sup>1</sup>Permittees that use Ohio EPA's "Air Services" can mark the affected emissions unit(s) as "permanently shutdown" in the facility profile along with the date the emissions unit(s) was permanently removed and/or disabled. Submitting the facility profile update will constitute notifying of the permanent shutdown of the affected emissions unit(s).

**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, you must follow the procedures in OAC Chapter 3745-31, including notifying Ohio EPA or the local air agency of the change in ownership or operator. Any transferee of this permit must 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.

## **B. Facility-Wide Terms and Conditions**

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.
2. The following emission units contained in this permit are subject to 40 CFR Part 60, Subpart OOO: P901. The complete NSPS requirements, including the NSPS General Provisions may be accessed via the internet from the Electronic Code of Federal Regulations (e-CFR) website <http://ecfr.gpoaccess.gov> or by contacting the appropriate Ohio EPA District Office or local air agency.

## **C. Emissions Unit Terms and Conditions**



1. F001, Portable Roadways

Operations, Property and/or Equipment Description:

Portableunpaved roadways and parking areas with maximum vehicle miles traveled of 21,900 miles/year. (First operating permit, supersedes PTI 06-07966, issued 6/22/2006)

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) (as established in PTI 06-07966, issued 6/22/2006)	Fugitive Particulate Emissions (PE) shall not exceed 21.84 tons/year.  No visible PE except for 3 minutes during any 60-minute period, from unpaved roadways and parking areas.  Best available control measures that are sufficient to minimize oreliminate visible PE of fugitive dust (See b)(2)a. through b)(2)g.)
b.	OAC rule 3745-17-07(B) (Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The emission limitation specified by this rule is less stringent thanthe emission limitation established pursuant to OAC rule3745-31-05(A)(3).
c.	OAC rule 3745-17-08(B) (Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The emission limitation specified by this rule is less stringent thanthe emission limitation established pursuant to OAC rule3745-31-05(A)(3).

## (2) Additional Terms and Conditions

- a. The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:

Unpaved roadways:

All

Unpaved parking areas:

All

- b. The permittee shall employ best available control measures on all unpaved roadways for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to treat the unpaved roadways and parking areas by watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The needed frequencies of implementation of the control measures shall be determined by the permittee's inspections pursuant to the monitoring section of this permit. Implementation of the control measures shall not be necessary for unpaved roadways that are 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use.
- d. The permittee shall promptly remove, in such a manner as to minimize or prevent resuspension, earth and/or other material from paved streets onto which such material has been deposited by trucking or earth moving equipment or erosion by water or other means.
- e. Any unpaved roadway, which during the term of this permit is paved or takes on the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled with the control measure(s) specified for paved surfaces. Any unpaved roadway that takes on the characteristics of a paved surface due to the application of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways. Any unpaved area that is paved shall be subject to the visible emission limitation for paved roadways.
- f. Open-bodied vehicles transporting materials likely to become airborne shall have such materials covered at all times if the control measure is necessary for the materials being transported.
- g. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the best available technology requirements of OAC rule 3745-31-05.

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each of the roadway segments and parking areas in accordance with the following frequencies:

<u>Unpaved roadways and parking areas</u>	<u>Minimum inspection frequency</u>
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All roads and parking areas	Daily
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- (2) The purpose of the inspections is to determine the need for implementing the above-mentioned 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) The permittee shall maintain records of the following information:

- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation
- b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures
- c. the dates the control measures were implemented; and
- d. on a calendar quarter basis, the total number of days the control measures were implemented and the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measures.

The information required in b)(3)d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-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 b)(1) of these terms and conditions shall be determined in accordance with the following methods:

## a. Emissions Limitations:

Fugitive PE shall not exceed 21.84 tons/year.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor calculation for unpaved roadways and parking areas in AP-42 section 13.2.2, (11/06). Initial compliance has been determined utilizing inputs representing current conditions as follows:

$$EF = [k(s/12)^a(W/3)^b[(365-p)/365]]$$

where:

EF = size-specific emission factor (lb/VMT);

s = silt content of road surface material (%) = 10%;

W = mean vehicle weight (tons) = 23;

a = constant (dimensionless) = 0.7;

b = constant (dimensionless) = 0.45;

k = particle size multiplier (dimensionless) = 4.9; and

p = number of rain days per year >0.01 in. = 140.

Therefore, EF = 6.65 lb/VMT

Maximum travel = 21,900 VMT/year

$(21,900 \text{ VMT/year})(6.65 \text{ Lb/VMT})(1 \text{ ton}/2,000 \text{ lbs}) = 72.78 \text{ TPY uncontrolled PE}$

Assume 70% control efficiency for roadway watering (engineering estimate of permittee)

$(72.78 \text{ TPY}) (.30) = 21.84 \text{ TPY controlled PE}$

## b. Emissions Limitations:

No visible PE except for 3 minutes during any 60-minute period from unpaved roadways and parking areas.

Applicable Compliance Method:

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

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).
- (2) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
  - a. the portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,
  - b. the portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).
- (3) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:
  - a. the permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
  - b. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
  - c. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".

- (4) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:
- a. the portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;
  - b. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);
  - c. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
  - d. a public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
  - e. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (5) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.
- (6) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.



2. F002, Portable Storage Piles

Operations, Property and/or Equipment Description:

Portable storage piles with a maximum production of 1,752,000 TPY of aggregate and a maximum storage pile surface of 0.5 acres. (First operating permit, supersedes PTI 06-07966, issued 6/22/2006)

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) (as established in PTI 06-07966, issued 6/22/2006)	Fugitive Particulate Emission (PE) shall not exceed 4.4 tons/year.  No visible PE except for 1 minute during any 60-minute period.  Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See b)(2)a. through b)(2)f.)
b.	OAC rule 3745-17-07(B) (Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
c.	OAC rule 3745-17-08(B) (Applicable only if this emissions unit is located in an area identified in Appendix A of OAC rule 3745-17-08)	The emission limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. The storage piles that are covered by this permit and subject to the requirements of OAC rule 3745-31-05 are listed below:

All

- b. The permittee shall employ best available control measures on all load-in and load-out operations associated with the storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's application, the permittee has committed to control fugitive emissions by utilizing water sprinkling systems at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- c. The above-mentioned control measure(s) shall be employed for each load-in and load-out operation of each storage pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during any such operation until further observation confirms that use of the measure(s) is unnecessary.
- d. The permittee shall employ best available control measures for wind erosion from the surfaces of all storage piles for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the application, the permittee has committed to watering storage piles to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The above-mentioned control measure(s) shall be employed for wind erosion from each pile if the permittee determines, as a result of the inspection conducted pursuant to the monitoring section of this permit, that the control measure(s) are necessary to ensure compliance with the above-mentioned applicable requirements. Implementation of the control measure(s) shall not be necessary for a storage pile 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.
- f. Implementation of the above-mentioned control measures 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).

c) Operational Restrictions

- (1) None.

d) Monitoring and/or Recordkeeping Requirements

- (1) Except as otherwise provided in this section, the permittee shall perform inspections of each load-in operation at each storage pile in accordance with the following frequencies:



Storage pile identification                      Minimum load-in inspection frequency

All    Daily

- (2) Except as otherwise provided in this section, the permittee shall perform inspections of each load-out operation at each storage pile in accordance with the following frequencies:

Storage pile identification                      Minimum load-out inspection frequency

All    Daily

- (3) Except as otherwise provided in this section, the permittee shall perform inspections of the wind erosion from pile surfaces associated with each storage pile in accordance with the following frequencies:

Storage pile identification                      Minimum wind erosion inspection frequency

All    Daily

- (4) No inspection shall be necessary for wind erosion from the surface of a storage pile when the pile is covered with snow and/or ice and for any storage pile activity 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.

- (5) The purpose of the inspections is to determine the need for implementing the control measures specified in this permit for load-in and load-out of a storage pile, and wind erosion from the surface of a storage pile. The inspections shall be performed during representative, normal storage pile operating conditions.

- (6) The permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed, including those inspections that were not performed due to snow and/or ice cover or precipitation;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented and, for wind erosion from pile surfaces, the total number of days where snow and/or ice cover or precipitation were sufficient to not require the control measure(s).

The information required in d)(6)d. shall be kept separately for (i) the load-in operations, (ii) the load-out operations, and (iii) the pile surfaces (wind erosion), and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.



e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal
- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-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 b)(1) of these terms and conditions shall be determined in accordance with the following methods:

a. Emissions Limitation:

No visible PE except for 1 minute during any 60-minute period.

Applicable Compliance Method:

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

b. Emissions Limitation:

Fugitive PE shall not exceed 4.4 tons/year.

Applicable Compliance Method:

Compliance shall be determined based on the emission factor calculation for drop operations associated with storage piles in AP-42 section 13.2.4.3-1 (11/06). Initial compliance has been determined using inputs representing current conditions as follows:

$$EF = k (0.0032) [(U/5)^{1.3} / (M/2)^{1.4}]$$

where:

EF = emission factor expressed in pounds per ton (lbs/ton);

k = particle size multiplier for TSP (dimensionless) = 0.74;

U = mean wind speed expressed in miles per hour (MPH) = 9.1; and

M= material moisture content (%) = 2.1.

Therefore, EF = .0048 lb/ton



Maximum annual load-in throughput (to the stockpile of raw materials) =

1,752,000 tons/year

Maximum annual load-out throughput (to the crusher or screener) = 1,752,000 tons/year

Maximum annual load-out throughput (from the stockpile of processed aggregate) = 1,752,000 tons/year

$$[(1,752,000 \text{ tons/year})(.0048 \text{ lb PE/ton}) + (1,752,000 \text{ tons/year})(.0048 \text{ lb PE/ton})$$

$$+ (1,752,000 \text{ tons/year})(.0048 \text{ lb PE/ton})] / 2,000 \text{ lbs/ton}$$

= 12.6 TPY of uncontrolled PE

Assume 70% control for watering (engineering estimate of permittee)

$$(12.6 \text{ TPY}) (.30) = 3.78 \text{ TPY of controlled PE}$$

The emission factor calculation for wind erosion from storage piles found in USEPA's Control of Open Fugitive Dust Sources (9/88). Initial compliance has been determined using inputs representing current conditions as follows:

$$EF = (1.7) (s/1.5) ((365-p)/235) (f/15)$$

Where:

s, silt content of material, wt. % = 4

p, days/yr with >0.01 inch precipitation = 130

f, % of time wind speed exceeds 12 mph = 30

a, surface area of piles in acres = 0.5

Therefore, EF = 9.0666667

= 0.827333 TPY of uncontrolled PE

Assume 30% control for precautionary measures

$$(0.827333) (.03) = 0.58 \text{ TPY of controlled PE}$$

TOTAL EMISSION SUMMARY

Load-out = 3.78 TPY

Wind erosion = 0.58 TPY

Total emissions = 4.4 TPY

## g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).
- (2) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
  - a. the portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,
  - b. the portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).
- (3) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:
  - a. the permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
  - b. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
  - c. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".
- (4) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:
  - a. the portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;

- b. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);
- c. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
- d. a public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
- e. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (5) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.
- (6) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.



3. P901, CEC-Minyu Jaw Crusher

Operations, Property and/or Equipment Description:

Portable CEC-Minyu Jaw Crusher (200 TPH) and attached 230 HP diesel generator (First operating permit, supersedes PTI 06-07966, issued 6/22/2006)

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)b., c)(2), d)(5), e)(4), f)(1)b., f)(1)d., f)(1)f., f)(1)h., f)(1)k.

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) (as established in PTI 06-07966, issued 6/22/2006)	<u>Stack Emissions:</u>  Sulfur Dioxide (SO <sub>2</sub> ) emissions shall not exceed 0.48 pound lbs/hr.  Nitrogen Oxides (NO <sub>x</sub> ) emissions shall not exceed 7.13 lbs/hr.  Volatile Organic Compounds (VOC) emissions shall not exceed 0.58lb/hr.  Carbon Monoxide (CO) emissions shall not exceed 1.56 lbs/hr.  See c)(1)  The requirements of this rule also include compliance with the requirements of OAC rules 3745-31-05(D), 3745-17-



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		<p>11(B)(5)(a), and 3745-17-07(A).  <u>Material Handling:</u></p> <p>Fugitive Particulate Emissions (PE) shall not exceed 3.78 tons/year.</p> <p>Best available control measures that are sufficient to minimize or eliminate visible PE of fugitive dust (See b)(2)b. through b)(2)e.)</p> <p>The requirements of this rule also include compliance with the requirements of OAC rule 3745-17-07(B)(7)(b).</p> <p>Visible PE of fugitive dust discharging from the transfer points or conveyors shall not exceed 10% opacity.</p> <p>Visible PE of fugitive dust discharging from the crushers shall not exceed 15 % opacity.</p>
b.	OAC rule 3745-31-05(D) (synthetic minor to avoid state modeling requirements and to avoid Title V applicability when co-locating)	<p>SO<sub>2</sub> emissions shall not exceed 1.03 tons as a rolling, 12-month summation.</p> <p>NO<sub>x</sub> emissions shall not exceed 15.6 tons as a rolling, 12-month summation.</p> <p>VOC emissions shall not exceed 1.24 tons as a rolling, 12-month summation.</p> <p>CO emissions shall not exceed 3.35 tons as a rolling, 12-month summation.</p> <p>PE emissions shall not exceed 1.09 tons as a rolling, 12-month summation.</p> <p>See c)(2)</p>
c.	OAC rule 3745-17-11(B)(5)(a)	<p>PE shall not exceed 0.310 lb PE/million Btu of actual heat input.</p> <p>See b)(2)b.</p>
d.	OAC rule 3745-17-07(A)(1)	Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.
e.	OAC rule 3745-18-06(G)	Exempt. See b)(2)a.
f.	OAC rule 3745-17-07(B)(1)	The requirements specified in these rules are less stringent than the requirements



	Applicable Rules/Requirements	Applicable Emissions Limitations/Control Measures
		established pursuant to OAC rule 3745-31-05(A)(3).
g.	OAC rule 3745-17-08(B)	The requirements specified in these rules are less stringent than the requirements established pursuant to OAC rule 3745-31-05(A)(3).
h.	40 CFR Part 60, Subpart OOO (In accordance with 40 CFR Part 60, this emissions unit is a portable nonmetallic mineral processing plant ie. crusher subject to the emissions limitations/control measures specified in this section.) (applicable when located at a crushed stone plant with a capacity of 150 tons per hour or greater)	The emission limitation specified by this rule is equivalent to the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).

(2) Additional Terms and Conditions

- a. This emissions unit is exempt from the requirements of OAC rule 3745-18-06(G) pursuant to OAC rule 3745-18-06(B).
- b. The material handling operations that are covered by this permit and subject to the above-mentioned requirements are listed below:

Feeder/hopper to Crusher

Crusher to Conveyor

Conveyor to Stacker(s)

Stacker(s) to storage piles

- c. The permittee shall employ best available control measures for the above-identified material handling operations for the purpose of ensuring compliance with the above-mentioned applicable requirements. In accordance with the permittee's permit application, the permittee has committed to perform the following control measures to ensure compliance: material handling operation(s) control measure(s)

Feeder/hopper to Jaw Crusher watering

Jaw Crusher to Conveyor watering

Conveyor to Stacker(s) watering

Stacker(s) to Storage Piles watering



Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.

- d. 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 the operation of the material handling operations until further observation confirms that use of the control measure(s) is unnecessary.
- e. Implementation of the above-mentioned control measures in accordance with the terms and conditions of this permit is appropriate and sufficient to satisfy the requirements of OAC rule 3745-31-05.

c) Operational Restrictions

- (1) The permittee shall only burn diesel fuel, containing no greater than 0.5% sulfur, by weight, in this emissions unit.
- (2) The permittee has requested a federally enforceable limitation on asphalt production for purposes of limiting potential to emit to avoid possible future Title V applicability associated with relocation of a portable source. Therefore, the maximum fuel usage for emissions unit P901 shall not exceed 51,685 gallons as a rolling, 12-month summation. This emissions unit has been in operation for more than 12 months and as such the permittee has existing records to generate the rolling, 12-month summation of operating hours upon issuance of this permit.

d) Monitoring and/or Recordkeeping Requirements

- (1) The permittee shall maintain documentation on the sulfur content, in percent by weight, of all fuels received.
- (2) For each day during which the permittee burns a fuel other than diesel fuel containing greater than 0.05% sulfur by weight, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.
- (3) Except as otherwise provided in this section, for material handling operations that are not adequately enclosed, the permittee shall perform inspections of such operations in accordance with the following minimum frequencies:

<u>Material handling operation(s)</u>	<u>Minimum inspection frequency</u>
All	Daily

The above-mentioned inspections shall be performed during representative, normal operating conditions.

- (4) The permittee shall maintain monthly records of the following information for P901:
  - a. the fuel usage, in gallons, for each month;

- b. the heat content, in BTU/gallon, for all fuels received; and
  - c. the rolling, 12-month summation of the fuel usage, calculated by adding the current month's fuel usage to the fuel usage for the preceding eleven calendar months.
- (5) For materials handling operations the permittee shall maintain records of the following information:
- a. the date and reason any required inspection was not performed;
  - b. the date of each inspection where it was determined by the permittee that it was necessary to implement the control measures;
  - c. the dates the control measures were implemented; and
  - d. on a calendar quarter basis, the total number of days the control measures were implemented.

The information in d)(5)d. shall be kept separately for each material handling operation identified above, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

e) Reporting Requirements

- (1) Unless other arrangements have been approved by the Director, all notifications and reports shall be submitted through the Ohio EPA's eBusiness Center: Air Services online web portal.
- (2) Annual Permit Evaluation Report (PER) forms will be mailed to the permittee at the end of the reporting period specified in the Authorization section of this permit. The permittee shall submit the PER in the form and manner provided by the director by the due date identified in the Authorization section of this permit. The permit evaluation report shall cover a reporting period of no more than twelve-months for each air contaminant source identified in this permit.
- (3) The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than diesel fuel containing less than 0.05% sulfur by weight, was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
- (4) The permittee shall submit quarterly deviation (excursion) reports that identify:
  - a. all deviations (excursions) of the following emissions limitations, operational restrictions and/or control device operating parameter limitations that restrict the potential to emit (PTE) of any regulated air pollutant and have been detected by the monitoring, record keeping and/or testing requirements in this permit:
    - i. any exceedance of the rolling, 12-month fuel usage limitation; and
    - ii. the rolling 12-month summation of the PE, SO<sub>2</sub>, NO<sub>x</sub>, VOC and CO emissions.



- b. the probable cause of each deviation (excursion);
- c. any corrective actions that were taken to remedy the deviations (excursions) or prevent future deviations (excursions); and
- d. the magnitude and duration of each deviation (excursion).

If no deviations (excursions) occurred during a calendar quarter, the permittee shall submit a report that states that no deviations (excursions) occurred during the quarter.

The quarterly reports shall be submitted, electronically through Ohio EPA Air Services, each year by January 31 (covering October to December), April 30 (covering January to March), July 31 (covering April to June), and October 31 (covering July to September), unless an alternative schedule has been established and approved by the Director (the appropriate District Office or local air agency).

f) Testing Requirements

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

- a. Emissions Limitation:

SO2 emissions shall not exceed 0.47lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, (10/96) (0.00205 lb/HP-hr) by the maximum rated capacity of P901 (230 HP).

If required, sulfur dioxide emissions shall be determined according to test Methods 1 - 4, and 6 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

- b. Emissions Limitation:

Emissions shall not exceed 1.03 tons SO2 as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling, 12-month period and the emission factor from AP-42, Table 3.3-1, (10/96) (0.00205 lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lb SO}_2\text{/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton SO}_2\text{/yr}$$

c. Emissions Limitation:

NOx emissions shall not exceed 7.13 lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, (10/96) (0.031 lb/HP-hr) by the maximum rated capacity of P901 (230 HP).

If required, nitrogen oxides emissions shall be determined according to test Methods 1 - 4, and 7 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

d. Emissions Limitation:

Emissions shall not exceed 15.6 tons NOx as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling, 12-month period and the emission factor from AP-42, Table 3.3-1, (10/96) (0.0310lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lbNOx/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton NOx/yr}$$

e. Emissions Limitation:

VOC emissions shall not exceed 0.58 lb/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, (10/96) (0.0025 lb VOC/ HP-hr) by the maximum rated capacity of P901 (230 HP).

If required, organic compound emissions shall be determined according to test Methods 1 - 4, and 18, 25, or 25A as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

f. Emissions Limitation:

Emissions shall not exceed 1.24 tons VOC as a rolling, 12-month summation.



Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling, 12-month period and the emission factor from AP-42, Table 3.3-1, (10/96) (0.00247 lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lb VOC/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton VOC/yr}$$

- g. Emissions Limitation:

CO emissions shall not exceed 1.54lbs/hr.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the emission factor from AP-42, Table 3.3-1, (10/96) (0.00668 lb/HP-hr) by the maximum rated capacity of P901 (230 HP).

If required, carbon monoxide emissions shall be determined according to test Methods 1 - 4, and 10 as set forth in the "Appendix on Test Methods" in 40 CFR, Part 60 "Standards of Performance for New Stationary Sources". Alternative U.S. EPA-approved test methods may be used with prior approval from Ohio EPA, Southeast District Office.

- h. Emissions Limitation:

Emissions shall not exceed 3.35 tons CO as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by utilizing the summation of the fuel usage (gallons) for each month in the rolling, 12-month period and the emission factor from AP-42, Table 3.3-1, (10/96) (0.00668 lb/HP-hr) as shown in the equation below.

$$(0.0005 \text{ ton/lb})(\text{fuel use, gal/yr})(\text{emission factor, lb CO/HP-hr})(\text{rated capacity, HP})(\text{fuel heat content, million BTU/gal}) / (\text{rated capacity, million BTU/hr}) = \text{ton CO/yr}$$

- i. Emissions Limitation:

PE shall not exceed 0.310lb/million Btu of actual heat input.



Applicable Compliance Method:

Compliance shall be determined based on the emission factor of 0.31 lb/million Btu specified in AP-42, Table 3.3-1 (10/96).

j. Emissions Limitation:

Emissions shall not exceed 1.09 tons PE as a rolling, 12-month summation.

Applicable Compliance Method:

Compliance shall be demonstrated by multiplying the summation of [the fuel usage (gallons) multiplied by the heat content (BTU/gallon)] for each month in the rolling, 12-month period by the emission factor from AP-42, Table 3.4-2,(10/96) (0.31 lb/million BTU) and multiplying by 1 x 10-6 million BTU/BTU, and dividing by 2,000 lbs/ton.

k. Emissions Limitation:

Visible PE from any stack shall not exceed 20% opacity as a 6-minute average, except as provided by the rule.

Applicable Compliance Method:

If required, visible particulate emissions shall be determined according to USEPA Method 9.

l. Emissions Limitation:

Fugitive PE shall not exceed 3.78 tons/year.

Applicable Compliance Method:

Compliance with the annual emission limitation shall be demonstrated by the following calculations based on the emission factors in AP-42 sections 13.2.4(1/95) and 11.19.2 (8/04); emission factors in AP-42 section 13.2.4 (01/95); and the maximum annual throughput of 1,752,000 TPY.

Transfer Points and Screen

$$PE = [((\# \text{ transfer points})(\text{transfer points EF})(\text{Max Annual Total})) + ((\text{Crushing EF})(\text{Max Annual Tons}))]/2,000 \text{ lbs/ton}$$

$$PE = [((4)(0.003 \text{ lbs/ton})(1,752,000 \text{ TPY})) + ((0.0024 \text{ lbs/tons})(1,752,000 \text{ TPY}))]/2,000 \text{ lbs/ton}$$

$$= [21,024 \text{ lbs/yr}] + [4,205 \text{ lbs/yr}]/2,000 \text{ lbs/ton}$$

$$= 12.61 \text{ TPY uncontrolled PE}$$

Assume 70% control for watering (engineering estimate of permittee)

$(12.61 \text{ TPY}) (0.30) = 3.78 \text{ TPY controlled PE}$

- (2) Performance testing shall be conducted as required in 40 CFR Part 60 Subpart OOO when this emissions unit is initially located at an affected facility pursuant to 40 CFR Part 60.670. The permittee shall conduct, or have conducted, emission testing for this emissions unit in accordance with the following requirements:
- a. The emission testing shall be conducted within 180 days of start-up of the emissions unit.
  - b. The emission testing shall be conducted to demonstrate compliance with the visible particulate emission limitations for fugitive emissions for each crushing operation, transfer point and conveyor specified in Section A.2.f of this permit, in accordance with the requirements of 40 CFR Part 60.675.
  - c. The following test method(s) shall be employed to demonstrate compliance with the allowable emission rate(s): for visible particulate emissions, Method 9 of 40 CFR 60, Appendix A.
  - d. The test(s) shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio EPA, Southeast District Office.

No later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southeast District Office. 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, Southeast District Office's refusal to accept the results of the emissions test(s).

Personnel from the Ohio EPA, Southeast District Office shall be permitted to witness the test(s), examine the 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.

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 Ohio EPA, Southeast District Office within 30 days following completion of test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Ohio EPA, Southeast District Office.

g) Miscellaneous Requirements

- (1) At the discretion and following the approval of the director, the permittee may relocate the portable source within the State of Ohio without first obtaining a permit to install (PTI) or permit to install and operate (PTIO) providing the appropriate exemption requirements have been met. The director may issue a "Notice of Site Approval" for either of the

following situations: the permittee notifies the director a minimum of 30 days prior to relocating pursuant to OAC rule 3745-31-03(A)(1)(p)(i); or the permittee identifies pre-disclosed location(s) that meet the criteria found in OAC rule 3745-31-05(H).

- (2) Pursuant to OAC rules 3745-31-03(A)(1)(p)(i), 3745-31-03(A)(1)(p)(ii), and 3745-31-05(H), the following criteria must be met for all portable facilities seeking approval for relocation:
  - a. the portable source must possess an issued permit to install (PTI) or permit to install and operate (PTIO) and demonstrate continuing compliance with any applicable best available technology determination and state and/or federal air pollution rule or law; and,
  - b. the portable source is operating pursuant to a currently effective PTI, PTIO and/or any applicable permit to operate (PTO) and demonstrates continuing compliance with the requirements of the permit(s).
- (3) In order to relocate a portable source in accordance with OAC rule 3745-31-03(A)(1)(p)(i) (i.e. the 30-day option), the following additional criteria must be met:
  - a. the permittee has provided proper notice of intent to relocate the portable source to the permitting District Office/Local air agency a minimum of thirty days prior to the scheduled relocation;
  - b. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the emissions would not cause a nuisance in violation of OAC rule 3745-15-07, and that the relocation of the portable source would not result in the installation of a major stationary source or a modification of an existing major stationary source at the new site; and
  - c. the director has issued a "Notice of Site Approval", stating that the proposed site is acceptable under OAC rule 3745-15-07, and that the relocation will not result in the installation or the modification of a major stationary source.

Using the 30-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval".
- (4) In order to relocate a portable source in accordance with OAC rules 3745-31-03(A)(1)(p)(ii) and 3745-31-05(H) (i.e. the 15-day option), the following additional criteria must be met:
  - a. the portable source owner has identified the proposed site(s) to the permitting District Office/Local air agency;
  - b. the owner of the proposed site(s) (if not the permittee) has provided the portable source owner with approval, or an equivalent declaration, that it is acceptable to move the portable source to the proposed site(s);

- c. the permitting District Office/Local air agency and the District Office/Local air agency having jurisdiction over the new site have determined that the portable source will have an acceptable environmental impact at the proposed site(s);
- d. a public notice, consistent with OAC Chapter 3745-47, has been published in the county where the proposed site(s) is/are located;
- e. the permittee has provided the Ohio EPA with a minimum of a 15-day written notice of the relocation.

Using the 15-day option, the portable source may only be relocated upon receipt of the "Notice of Site Approval", and following submittal of the 15-day written notice of the relocation. Any site approvals issued pursuant to OAC rule 3745-31-05(H) shall be valid for no longer than 3 years and are subject to renewal. Also, pursuant to OAC rule 3745-31-07(D)(2), the director may modify the site approval to add or delete certain portable sources or add or delete certain terms and conditions as appropriate.

- (5) Failure to submit said notification or failure to receive Ohio EPA approval prior to relocation of the portable source may result in fines and civil penalties.
- (6) When a portable source is co-located at a stationary source, or is co-located with multiple portable sources, potential emissions from the portable source may be required to be combined for facility potential to emit calculations for Title V and PSD applicability. If the relocation of the portable source would result in the installation of a major source or the modification of a major source, as defined in OAC rule 3745-31-01 (LLL) and (JJJ), the permittee shall submit an application and obtain a PTI for the new location prior to moving the portable source. Relocation of any portable source that results in the creation of a major source, as defined in OAC rule 3745- 77-01, must also meet all applicable requirements under the Title V program contained in OAC Chapter 3745-77, which may include the requirement to apply for a Title V permit.