

Facility ID: 1677130075 Issuance type: Final State Permit To Operate

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit F001](#)
- [Go to Part II for Emissions Unit F002](#)
- [Go to Part II for Emissions Unit F003](#)
- [Go to Part II for Emissions Unit F004](#)

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Facility ID: 1677130075 Emissions Unit ID: F001 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
unpaved roadways	OAC rule 3745-31-05(A)(3) (PTI 16-02168)	no visible particulate emissions except for 3 minutes during any 60-minute period 8.4 tons/year of particulate matter best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.h)

2. Additional Terms and Conditions

- (a) The permittee shall employ best available control measures on all roadways and parking areas 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 treat the roadways and parking areas with ample water at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance. 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 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. Implementation of any control measure may be suspended if unsafe or hazardous driving conditions would be created by its use. Any unpaved roadway or parking area, which during the term of this permit is paved or takes the characteristics of a paved surface due to the application of certain types of dust suppressants, may be controlled using appropriate dust control measures for paved surfaces. Any unpaved roadway or parking area that takes the characteristics of a paved roadway or parking area due to the application of certain types of dust suppressants shall remain subject to the visible emission limitation for unpaved roadways and parking areas. Any unpaved roadway or parking area that is paved shall be subject to a visible emission limitation of no visible particulate emissions except for one minute during any 60-minute period. 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. 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. 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. This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B). The 8.4 ton/year particulate matter limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.
2. Waste or used oil shall not be used for controlling fugitive dust emissions from any roadways/parking areas at this facility.

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the roadways and parking areas in accordance with the following frequencies:
 - roadways/parking areas minimum inspection frequency
 - all daily
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 may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. 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 4. d. shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

D. Reporting Requirements

1. The permittee shall submit annual deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The above deviation reports shall be submitted to the Director (the appropriate Ohio EPA District Office or local air agency) by January 31 of each year, in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible particulate emission limitations for the roadways/parking areas 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," 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.
2. Compliance with the above mass particulate emission limitation for this emissions unit shall be based upon the potential to emit:

$$E = (EF10)(VMT10)(1 \text{ ton}/2000 \text{ pounds})$$
 where:

$$E = 8.4 \text{ tons/year of particulate matter [potential to emit];}$$

$$EF10 = 2.0 \text{ pounds of particulate matter/vehicle mile traveled [derived emission factor (AP-42, Chapter 13.2.2, Equation 1 (9/98)) for 10-tire vehicles on unpaved roadways]; and}$$

$$VMT10 = 8400 \text{ vehicle miles traveled/year [maximum total miles driven by 10-tire vehicles per year].}$$

The above emission factors were developed without considering implementation of fugitive dust control measures.

F. Miscellaneous Requirements

1. None

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Facility ID: 1677130075 Emissions Unit ID: F002 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
material storage piles including load-in/load-out and wind erosion (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05(A)(3) (PTI 16-02168)	no visible emissions except for one minute in any hour 5.3 tons/year of particulate matter best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.h)

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:

sandstone (finished material)
 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 permit application, the permittee has committed to treat the load-in and load-out material(s) with water and/or any other suitable dust suppression chemicals to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 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.
 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 permittee's permit application, the permittee has committed to treat each storage pile with water and/or any other suitable dust suppression chemicals to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
 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.
 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.
 This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).
 The 5.3 ton/year particulate matter limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping 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 may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
7. 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 7.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.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency, excluding an inspection which was not performed due to an exemption for snow and/or ice cover or precipitation; and
 - b. each instance when a control measure, that was to be implemented as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission 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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.
2. Compliance with the above mass particulate emission limitation for this emissions unit shall be based upon the potential to emit:

$$E = (LI + LO + WE)(1 \text{ ton}/2000 \text{ pounds})$$

where:

E = 5.3 tons/year of particulate matter [potential to emit];

LI = 0.8 ton/year of particulate matter from storage pile load-in [multiply the derived emission factor (AP-42 Chapter 13.2.4 equation 1 (1/95)) of 0.0064 pound of particulate emissions per ton of material load-in by the maximum 250,000 tons of material load-in per year];

LO = 0.8 ton/year of particulate matter from storage pile load-out [multiply the derived emission factor (AP-42 Chapter 13.2.4 equation 1 (1/95)) of 0.0064 pound of particulate emissions per ton of material load-out by the maximum 250,000 tons of material load-out per year]; and

WE = 3.7 tons/year of particulate matter from storage pile wind erosion [multiply the derived emission factor (RACM 2.1.2, equation 4) of 0.24 pound of particulate emissions per ton of material stored by the maximum 30,900 tons of material stored per year].

The above emission factors were developed without considering implementation of fugitive dust control measures.

F. Miscellaneous Requirements

- 1. None

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Facility ID: 1677130075 Emissions Unit ID: F003 Issuance type: Final State Permit To Operate

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Part II - Special Terms and Conditions

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.

A. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
material handling using trucks, front-end loaders, and belt conveyors	OAC rule 3745-31-05(A)(3) (PTI 16-02168)	no visible particulate emissions except for 3 minutes during any 60-minute period 14.2 tons/year of particulate matter best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.f)

2. Additional Terms and Conditions

- (a) The material handling operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:
 - truck dumping;
 - front-end loading; and
 - belt conveyor loading/unloading

The permittee shall employ best available control measures for the above-identified material handling operation(s) 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 measure(s) to ensure compliance:

 - material handling operation(s) control measure(s)
 - truck dumping maintain a low drop height and a high moisture content for the material being handled
 - front-end loading maintain a low drop height and a high moisture content for the material being handled
 - belt conveyor loading/unloading maintain a low drop height and a high moisture content for the material being handled

Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
For each material handling operation that is not adequately enclosed, the above-identified control measure(s) 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 measure(s) is (are) necessary to ensure compliance with the above-mentioned applicable requirements. Any required implementation of the control measure(s) shall continue during the operation of the material handling operation(s) until further observation confirms that use of the control measure(s) is unnecessary.
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.
This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(11)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).

The 14.2 ton/year particulate matter limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. 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:

material handling operation(s) minimum inspection frequency

all daily

2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. The permittee shall maintain 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 4.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.

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
- each day during which an inspection was not performed by the required frequency; and
 - each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission limitation for the material handling operation(s) 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"), as such Appendix existed on July 1, 1996, and the modifications listed in paragraphs (B)(4)(a) through (B)(4)(c) of OAC rule 3745-17-03.

2. Compliance with the above mass particulate emission limitation for this emissions unit shall be based upon the potential to emit:

$$E = (TD + FL + BC)(1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = 14.2 \text{ tons/year of particulate matter [potential to emit];}$$

TD = 2.5 tons/year of particulate matter from truck dumping [multiply the emission factor (Table 2.1.3-1) of 0.02 pound of particulate emissions per ton of material unloaded by the maximum 250,000 tons of material truck dumping per year];

FL = 0.8 ton/year of particulate matter from front-end loading [multiply the derived emission factor (AP-42 Chapter 13.2.4 equation 1 (1/95)) of 0.0064 pound of particulate emissions per ton of material front-end loading by the maximum 250,000 tons of material front-end loading per year]; and

BC = 10.9 tons/year of particulate matter from belt conveyors [multiply the emission factor (US EPA Fire 6.01 SCC 30502503) of 0.029 pound of particulate emissions per ton of material conveyed/transferred by the maximum 750,000 tons per year of material conveyed/transferred].

The above emission factors were developed without considering implementation of fugitive dust control measures.

F. Miscellaneous Requirements

1. None

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Part II - Special Terms and Conditions

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.

A. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
mineral extraction of sand materials	OAC rule 3745-31-05(A)(3) (PTI 16-02168)	no visible particulate emissions except for 10 minutes during any 60-minute period 8.4 tons/year of particulate matter best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.a through A.2.e)

2. Additional Terms and Conditions

- (a) The mineral extraction operation(s) that are covered by this permit and subject to the above-mentioned requirements are listed below:

overburden removal;
drilling;
blasting;
truck loading of sand materials;
truck loading of overburden;
wind erosion; and
reclamation.

The permittee shall employ best available control measures for the above-identified mineral extraction operation(s) 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 measure(s) to ensure compliance:

mineral extraction operation(s) control measure(s)
overburden removal minimization of disturbed land surface

drilling water injection system

blasting minimization of area to be blasted and prevention of blast overshoot

truck loading of sand materials avoid spillage, and maintain a low drop height & high moisture content for the material being handled

truck loading of overburden avoid spillage, and maintain a low drop height & high moisture content for the material being handled

wind erosion water as needed

reclamation return site to vegetated state expeditiously

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

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.

This facility is not located within an "Appendix A" area as identified in OAC rule 3745-17-08. Therefore, pursuant to OAC rule 3745-17-08(A) and OAC rule 3745-17-07(B)(1)(e), this emissions unit is exempt from the requirements of OAC rule 3745-17-08(B) and OAC rule 3745-17-07(B).

The 8.4 ton/year particulate matter limitation was established (based on application data) for PTI purposes to reflect the potential to emit for this emissions unit. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with this limit.

B. Operational Restrictions

1. None

C. Monitoring and/or Record Keeping Requirements

1. Except as otherwise provided in this section, the permittee shall perform inspections of the mineral extraction operations in accordance with the following minimum frequencies:
 - mineral extraction operation(s) minimum inspection frequency
 - all daily
2. The above-mentioned inspections shall be performed during representative, normal operating conditions.
3. The permittee may, upon receipt of written approval from the appropriate Ohio EPA District Office or local air agency, modify the above-mentioned inspection frequencies if operating experience indicates that less frequent inspections would be sufficient to ensure compliance with the above-mentioned applicable requirements.
4. 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 measure(s);
 - c. the dates the control measure(s) was (were) implemented; and
 - d. on a calendar quarter basis, the total number of days the control measure(s) was (were) implemented.

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

D. Reporting Requirements

1. The permittee shall submit deviation reports that identify any of the following occurrences:
 - a. each day during which an inspection was not performed by the required frequency; and
 - b. each instance when a control measure, that was to be performed as a result of an inspection, was not implemented.
2. The deviation reports shall be submitted in accordance with the reporting requirements of the General Terms and Conditions of this permit.

E. Testing Requirements

1. Compliance with the visible emission limitation for the mineral extraction operation(s) 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"), as such Appendix existed on July 1, 1996.
2. Compliance with the above mass particulate emission limitation for this emissions unit shall be based upon the potential to emit:

$$E = (OR + D + B + TS + TO + WE + R)(1 \text{ ton}/2000 \text{ pounds})$$

where:

$$E = 8.4 \text{ tons/year of particulate matter [potential to emit];}$$

OR = 0.3 ton/year of particulate matter from overburden removal [multiply the emission factor (Ohio EPA RACM Table 2.1.4-3) of 0.004 pound of particulate emissions per ton of overburden removed by the maximum 171,428 tons of overburden removed per year];

D = 0.1 ton/year of particulate matter from drilling [multiply the emission factor (Ohio EPA RACM Table 2.1.4-4) of 1.5 pounds of particulate emissions per hole drilled by the maximum 80 drilled holes per year];

B = 0.4 ton/year of particulate matter from blasting [multiply the emission factor (Ohio EPA RACM Table 2.1.4-4) of 58.5 pounds of particulate emissions per blast by the maximum 12 drilled holes per year];

TS = 2.5 tons/year of particulate matter from truck loading of sand material [multiply the emission factor (US EPA Fire 6.01 SCC 30502506) of 0.02 pound of particulate emissions per ton of sand material loaded by the maximum 250,000 tons of sand material loaded per year];

TO = 4.6 tons/year of particulate matter from truck loading of overburden [multiply the emission factor (AP-42, Table 11.9-4 (7/98)) of 0.037 pound of particulate emissions per ton of overburden loaded by the maximum 250,000 tons of overburden loaded per year];

WE = 0.2 ton/year of particulate matter from wind erosion [multiply the derived emission factor (Ohio EPA RACM page 2-79 equation 1) of 0.0329 ton of particulate emissions per acre per year by the maximum 5 barren acres at the site during the year]; and

R = 0.3 ton/year of particulate matter from overburden reclamation [multiply the emission factor (Ohio EPA RACM Table 2.1.4-3, page 2-79 states the emission factor is the same as the emission factor for overburden removal) of 0.004 pound of particulate emissions per ton of overburden reclamation by the maximum 171,428 tons of overburden reclamation per year]. The above emission factors were developed without considering implementation of fugitive dust control measures.

F. Miscellaneous Requirements

1. None