

Facility ID: 0250000959 Issuance type: Title V Draft Permit

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 III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. None

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### b State Only Enforceable Section

1. The following insignificant emissions units are located at this facility:

F006 - Tertiary Crusher  
F007 - Tertiary Wet Screen

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, as well as any emission limitations and/or control requirements contained within a Permit to Install for the emissions unit.

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- [Go to Part III for Emissions Unit F001](#)
- [Go to Part III for Emissions Unit F002](#)
- [Go to Part III for Emissions Unit F003](#)
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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 0250000959 Emissions Unit ID: B001 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
1250 HP No.2 diesel fuel powered generator	OAC rule 3745-17-07(A)	a. Except as specified below, visible particulate emissions from the exhaust stack serving this emissions unit shall not exceed twenty (20) percent opacity, as a six-minute average.  b. Visible particulate emissions from the exhaust stack serving this emissions unit may exceed twenty (20) percent opacity, as a six-minute average, for not more than six (6) consecutive minutes in any sixty-minute period, but shall not exceed sixty (60) percent opacity, as a six-minute average, at any time.  Particulate emissions shall not exceed 0.75 pound per hour and 1.8 tons/year.  Sulfur dioxide emissions shall not exceed 6.0 pounds per hour and 14.4 tons/year.  Nitrogen oxides emissions shall not exceed 38.6 pounds per hour and 92.6 tons/year.  Carbon monoxide emissions shall not exceed 8.0 pounds per hour and 19.2 tons/year.  Organic compound emissions shall not exceed 2.5 pounds per hour and 6.0 tons/year.
	OAC rule 3745-31-05 PTI No. 02-12584	See A.I.2.a
	OAC rule 3745-17-11(B)	See A.I.2.a
	OAC rule 3745-18-06	See A.I.2.a

**2. Additional Terms and Conditions**

- a. This emission limitation is less stringent than the corresponding limitation specified in PTI No. 02-12584.

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**II. Operational Restrictions**

1. The maximum annual operating hours for this emissions unit shall not exceed 4800 hours, based upon a rolling, 12- month summation of the operating hours.
2. The permittee shall burn only number two (2) fuel oil in this emissions unit.

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**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records for this emissions unit which indicate the following information:
  - a. the total volume (in gallons) of No. 2 fuel oil burned in this emissions unit; and
  - b. the total hours of operation of this emissions unit on both a monthly and a rolling, 12-month basis.
2. For each day during which the permittee burns a fuel other than number two (2) fuel oil, the permittee shall maintain a record of the type and quantity of fuel burned in this emissions unit.

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**IV. Reporting Requirements**

1. The permittee shall notify the Director (the Northeast District Office) in writing of any record which shows a deviation of the operating restrictions in section A.II. above. The notification shall include a copy of such fuel usage or operations record and shall be sent to the Director (the Northeast District Office) within 45 days after the deviation occurs.
2. The permittee shall submit an annual report that specifies the annual volume (in gallons) of diesel fuel burned in this emissions unit as well as the annual hours of operation of this emissions unit. Each report shall be submitted by February 15 of each year and for operations data recorded during the previous calendar year.
3. The permittee shall submit deviation (excursion) reports that identify each day when a fuel other than number two (2) fuel oil was burned in this emissions unit. Each report shall be submitted within 30 days after the deviation occurs.
4. The permittee shall submit deviation (excursion) reports that identify each month in which the maximum annual operating hour limit, on a rolling 12-month basis, was exceeded. Each report shall be submitted within 30 days after the deviation occurs.

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**V. Testing Requirements**

1. Compliance with the emissions limitations in Section A.I. of these terms and conditions shall be determined in accordance with the following methods:
  - a. Emissions Limitation:  
0.75 pound per hour and 1.8 tons per year of particulate emissions.  
  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 3.4, table 3.4-2 (.062 lb of particulate matter per mmBtu actual heat input) and the maximum rated heat rate of this emissions unit (12.05 mmBtu/hr). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.  
  
If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly particulate emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 5, and in OAC 3745-17-03(B)(7).
  - b. Emissions Limitation:  
6.0 pounds per hour and 14.4 tons per year of sulfur dioxide emissions.  
  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 3.4, table 3.4-1 (0.29 lb of SO<sub>x</sub> per mmBtu actual heat input) and the maximum rated heat rate of this emissions unit (12.05 mmBtu/hr). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.  
  
If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly sulfur dioxide emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 6, and in OAC 3745-18-04(E)(1).
  - c. Emissions Limitation:  
  
38.6 pounds per hour and 92.6 tons per year nitrogen oxide(NO<sub>x</sub>) emissions.  
  
Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor as supplied by the manufacturer (14 grams NO<sub>x</sub> per HP-hr) and the maximum rated firing capacity of this emissions unit (1250 HP). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly NOx emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 7 or 7E.

- d. Emissions Limitation:  
8.0 pounds per hour and 19.2 tons per year carbon monoxide(CO) emissions.

Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor as supplied by the manufacturer (2.9 grams CO per HP-hr) and the maximum rated firing capacity of this emissions unit (1250 HP). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly CO emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 10.

- e. Emissions Limitation:  
2.5 pounds per hour and 6.0 tons per year organic compound(OC) emissions.

Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factor as supplied by the manufacturer (0.9 grams OC per HP-hr) and the maximum rated firing capacity of this emissions unit (1250 HP). Tons per year shall be calculated by multiplying pounds per hour by the hours of operation per year, and dividing by 2000.

If required pursuant to OAC 3745-15-04, the permittee shall demonstrate compliance with the hourly OC emission limit of this permit by means of physical testing of the effluent from this emissions unit in accordance with testing procedures listed in 40 CFR Part 60, "Standards of Performance for New Stationary Sources", Appendix A, Method 25 or 25A.

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250000959 Emissions Unit ID: B001 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
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1250 HP No.2 diesel fuel powered generator		
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2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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**Part III - Terms and Conditions for Emissions Units**

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**Facility ID: 0250000959 Emissions Unit ID: F001 Issuance type: Title V Draft Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. 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>
paved roadways and parking areas	OAC rule 3745-17-08	This rule does not apply per OAC 3745-17-08 (A)(1).
unpaved roadways and parking areas	OAC rule 3745-17-08	This rule does not apply per OAC 3745-17-08 (A)(1).
paved roadways and parking areas (see Section A.2.a)	OAC rule 3745-31-05 (PTI 02-10880)	no visible particulate emissions except for six minutes during any 60- minute period
unpaved roadways and parking areas (see Section A.2.b)	OAC rule 3745-31-05 (PTI 02-10880)	best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.c, A.2.d, and A.2.f through A.2.j) no visible particulate emissions except for 13 minutes during any 60- minute period
all roadways and parking areas	OAC rule 3745-31-05 (PTI 02-10880)	best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.e through A.2.i) 24.6 tpy particulate emissions (see Section A.1.2.k)

**2. Additional Terms and Conditions**

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

- (a) Paved Roadways:  
Entrance road
- Paved Parking Areas:  
None
- b. The unpaved roadways and parking areas that are covered by this permit and subject to the above-mentioned requirements are listed below:
- Unpaved Roadways:  
Road from paved entrance to scale house  
Roads around stock piles  
Pit road to primary crusher
- Unpaved Parking Areas:  
Parking area around office
- c. The permittee shall employ best available control measures on all paved 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 paved roadways and parking areas by sweeping and / or watering at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- d. The permittee shall employ best available control measures on the unpaved shoulders of all paved roadways 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 unpaved shoulders of all paved roadways with water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- e. The permittee shall employ best available control measures on all unpaved 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 unpaved roadways and parking areas with limestone resurfacing as needed and water and/or any other suitable dust suppression chemicals at sufficient treatment frequencies to ensure compliance. Nothing in this paragraph shall prohibit the permittee from employing other control measures to ensure compliance.
- f. 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 paved or unpaved 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.
- g. 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 with the control measure(s) specified above 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 the visible emission limitation for paved roadways and parking areas.
- h. 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.
- i. 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.
- j. 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.
- k. The 24.6 tons per year fugitive PE emission limitation was established 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 limitation.

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**II. Operational Restrictions**

1. A maximum speed limit of 10 miles per hour shall be posted and enforced on the property.

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**III. 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:  
  
Paved Roadways and Parking Areas minimum inspection frequency  
  
Entrance road daily  
  
Unpaved Roadways and Parking Areas minimum inspection frequency  
  
Road from paved entrance to scale house daily  
Roads around stock piles daily  
Pit road to primary crusher daily  
Parking area around office 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 Northeast 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 kept separately for (i) the paved roadways and parking areas and (ii) the unpaved roadways and parking areas, and shall be updated on a calendar quarter basis within 30 days after the end of each calendar quarter.

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**IV. 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.

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**V. Testing Requirements**

1. Compliance with the emission limitations for the paved and unpaved roadways and 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 emission limitation(s) in this permits terms and conditions shall be determined in

accordance with the following method(s):

Emissions Limitation:  
24.6 tons per year of particulate emissions.

Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors , sections 13.2.1 and 13.2.2.

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VI. **Miscellaneous Requirements**

- 1. None

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**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
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paved roadways and parking areas		
unpaved roadways and parking areas		

2. **Additional Terms and Conditions**

- 1. None

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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**Facility ID: 0250000959 Emissions Unit ID: F002 Issuance type: Title V Draft Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-17-08	This rule does not apply per OAC 3745-17-08 (A)(1).
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-17-08	This rule does not apply per OAC 3745-17-08 (A)(1).
load-in and load-out of storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05 PTI No. 02-13725	no visible emissions except for 13 minutes in any hour  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.b, A.2.c and A.2.f)
wind erosion from storage piles (see Section A.2.a for identification of storage piles)	OAC rule 3745-31-05 PTI No. 02-13725	no visible emissions except for one minute in any hour  best available control measures that are sufficient to minimize or eliminate visible emissions of fugitive dust (see Sections A.2.d through A.2.f)
all storage pile operations	OAC rule 3745-31-05 PTI No. 02-13725	31.2 tpy particulate emissions (see Section A.I.2.g)

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:
  - (a) Ohio sized #1, #2, #57, and #8 aggregate storage piles, sand and DGA storage piles
  - 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 permit application, the permittee has committed to ensure sufficient moisture content by the addition of water 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 permittee's permit application, the permittee has committed to

ensure sufficient moisture content by the addition of water 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.
- g. The 31.2 tons per year fugitive PE emission limitation was established 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 limitation.

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**II. Operational Restrictions**

- 1. None

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**III. 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
  - Ohio sized #1, #2, #57, and #8  
aggregate storage piles, sand and DGA  
storage piles 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
  - Ohio sized #1, #2, #57, and #8  
aggregate storage piles, sand and DGA  
storage piles 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
  - Ohio sized #1, #2, #57, and #8  
aggregate storage piles, sand and DGA  
storage piles weekly
- 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 Ohio EPA Northeast 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.

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**IV. 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.

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**V. Testing Requirements**

1. Compliance with the 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)(d) of OAC rule 3745-17-03.
2. Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):

Emissions Limitation:  
31.2 tons per year of particulate emissions.

Applicable Compliance Method:  
Compliance shall be based upon the use of an emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors , section 13.2.4.

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0250000959 Emissions Unit ID: F002 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
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load-in and load-out of storage piles (see Section A.2.a for identification of storage		
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- piles)
  - wind erosion from storage piles (see Section A.2.a for identification of storage piles)
- 2. **Additional Terms and Conditions**
  - 1. None

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II. **Operational Restrictions**

- 1. None

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III. **Monitoring and/or Record Keeping Requirements**

- 1. None

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IV. **Reporting Requirements**

- 1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 0250000959 Emissions Unit ID: F003 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
primary crusher and screening(F003)	40 CFR Part 60, Subpart OOO	Visible emissions shall not exceed 15 percent opacity at the crusher.
		Visible emissions shall not exceed 10 percent opacity at any transfer point on the belt conveyors.
	OAC rule 3745-31-05 PTI No. 02-13725	Visible emissions shall not exceed 20 percent opacity as a three- minute average, at the screening operations. See A.II.1.

OAC rule 3745-17-08	15.3 TPY particulate emission(PE) This rule does not apply per OAC rule 3745-17-08 (A) (1).
OAC rule 3745-17-07	The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart 000.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The permittee shall control fugitive dust emissions by using water sprays at the crusher, at the belt conveyor, and at the hopper to the stacker conveyor and by minimizing the free fall distance of material.
2. The maximum annual production rate for this emissions unit shall not exceed 1,900,000 tons per year of limestone, based upon a rolling, 12- month summation of the production rates.

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and
  - b. the rolling, 12- month summation of the limestone production rates.
2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather conditions allow, for any visible fugitive dust emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. whether the emissions are representative of normal operations;
  - b. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - c. the total duration of any visible emission incident; and
  - d. any corrective actions taken to eliminate the visible emissions.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.
2. The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive dust emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Opacity limit for visible particulate emissions  
  
Applicable Compliance Method:  
Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.
  - b. Emissions Limitation:  
15.3 tons per year of particulate emissions.  
  
Applicable Compliance Method:  
Compliance shall be based upon the use of the emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 11.19, table 11.19.2-2 and the limestone production rate.

Primary crusher(PE) = PR x 0.0007 lb PE/ ton of stone x CE/2000

and

Primary screening(PE) = PR x 0.0315 lb PE/ ton of stone x CE/2000

and

Total PE = Primary crusher(PE) + Primary screening(PE),

where

PR = the annual limestone production rate, and

CE = control efficiency, assumed to be 0.5 for wet suppression.

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 0250000959 Emissions Unit ID: F003 Issuance type: Title V Draft Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
2. <b>Additional Terms and Conditions</b>			
1.	None		

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

- 1. None

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VI. **Miscellaneous Requirements**

- 1. None

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**Part III - Terms and Conditions for Emissions Units**

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Facility ID: 0250000959 Emissions Unit ID: F004 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **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>
secondary crusher and screening (F004)	40 CFR Part 60, Subpart OOO	Visible emissions shall not exceed 15 percent opacity at the crusher.
	OAC rule 3745-31-05 PTI No. 02-13725	Visible emissions shall not exceed 10 percent opacity at any transfer point on the belt conveyors.
	OAC rule 3745-17-08	Visible emissions shall not exceed 20 percent opacity as a three- minute average, at the screening operations. See A.II.1.
	OAC rule 3745-17-07	42.9 TPY particulate emission(PE) This rule does not apply per OAC rule 3745-17-08 (A) (1). The emission limitations specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3) and 40 CFR Part 60, Subpart OOO.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

- 1. The permittee shall control fugitive dust emissions by using water sprays at the crusher and at the various transfer points on the conveyors being used and by minimizing the free fall distance of material.
- 2. The maximum annual production rate for this emissions unit shall not exceed 1,900,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.

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III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and
  - b. the rolling, 12- month summation of the limestone production rates.
- 2. The permittee shall perform daily checks, when the emissions unit is in operation and when the weather

conditions allow, for any visible fugitive dust emissions from this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. whether the emissions are representative of normal operations;
- b. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- c. the total duration of any visible emission incident; and
- d. any corrective actions taken to eliminate the visible emissions.

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**IV. Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.
2. The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.
3. The permittee shall submit semiannual written reports which (a) identify all days during which any visible fugitive dust emissions were observed from this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Director (Ohio EPA Northeast District Office) by January 31 and July 31 of each year and shall cover the previous 6-month period.

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**V. Testing Requirements**

1. Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Opacity limit for visible particulate emissions  
  
Applicable Compliance Method:  
Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.
  - b. Emissions Limitation:  
42.9 tons per year particulate emissions.  
  
Applicable Compliance Method:  
Compliance shall be based upon the use of the emission factors as specified in AP-42, Compilation of Air Pollution Emission Factors (10/96), section 11.19, table 11.19.2-2 and the limestone production rate.  
  
Secondary crusher(PE) =  $PR \times 0.0315 \text{ lb PE/ ton of stone} \times CE/2000$   
  
and  
  
Secondary screening(PE) =  $PR \times 0.149 \text{ lb PE/ ton of stone} \times CE/2000$   
  
and  
  
Total PE = Secondary crusher(PE) + Secondary screening(PE),  
  
where  
PR = the annual limestone production rate, and  
CE = control efficiency, assumed to be 0.25 for secondary wet suppression.

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**VI. Miscellaneous Requirements**

1. None

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**Facility ID: 0250000959 Emissions Unit ID: F004 Issuance type: Title V Draft Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under

state law only.

1. None.

**I. 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>
<b>2. Additional Terms and Conditions</b>		
1. None		

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**II. Operational Restrictions**

1. None

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**III. Monitoring and/or Record Keeping Requirements**

1. None

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**IV. Reporting Requirements**

1. None

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**V. Testing Requirements**

1. None

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 0250000959 Emissions Unit ID: F005 Issuance type: Title V Draft Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. 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>
Limestone mining operations	OAC rule 3745-31-05 PTI No. 02-13725	Visible emissions shall not exceed 20 percent opacity as a three- minute average, for material removal operations, material loading operations, and drilling operations. See A.II.1. 132.7 TPY particulate emissions(PE)
	OAC rule 3745-17-08	This rule does not apply per OAC rule 3745-17-08 (A) (1).
	OAC rule 3745-17-07	This rule does not apply to the fugitive dust emissions because OAC rule 3745-17-08 is not applicable.

2. **Additional Terms and Conditions**

- (a) None

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II. **Operational Restrictions**

1. The permittee shall control fugitive dust by using precautionary operation practices, by minimization of disturbed land surface, and by use of water sprays at all reasonable times.
2. The maximum annual production rate for this emissions unit shall not exceed 1,900,000 tons per year of limestone , based upon a rolling, 12- month summation of the production rates.
3. The permittee shall not overload the haul trucks with extracted aggregate material, in order to minimize spillage and windage losses.
4. The permittee shall only use an adequate amount of explosives to prevent overshooting during blasting.
5. The permittee shall restrict the area to be blasted by properly sequencing the blasts and judiciously placing the charge to minimize the outward flux of particulates during blasting.
6. The permittee shall use and maintain a dust control system during all drilling operations to prevent fugitive dust from becoming airborne.

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain monthly records of the following information:
  - a. the limestone production rate for each month; and
  - b. the rolling, 12- month summation of the limestone production rates.

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IV. **Reporting Requirements**

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.
2. The permittee shall submit annual reports which specify the total particulate emissions from this emissions unit for the previous calendar year. These reports shall be submitted by January 31 of each year.

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V. **Testing Requirements**

1. Compliance with the emission limitation(s) in this permits terms and conditions shall be determined in accordance with the following method(s):
  - a. Emission Limitation:  
Opacity limit for visible particulate emissions  
  
Applicable Compliance Method:  
Compliance shall be determined by visible emission evaluations performed in accordance with OAC Rule 3745-17-03(B)(3) using the methods and procedures specified in U.S.EPA Reference Method 9.
  - b. Emissions Limitation:  
132.7 tons per year of particulate emissions(PE).  
  
Applicable Compliance Method:  
Compliance shall be based upon the use of the emission factors as specified in AIRS, the limestone

production rate, and the operating hours.

$$\text{Topsoil removal(PE)} = \text{PR} \times 0.05 \text{ lb PE/ ton of topsoil} \times \text{CE} \times \text{TS}/2000,$$

$$\text{Blasting(PE)} = \text{PR} \times 0.16 \text{ lb PE/ ton of stone} \times \text{CE}/2000,$$

$$\text{Loading(PE)} = \text{PR} \times 0.1 \text{ lb PE/ton of stone} \times \text{CE}/2000, \text{ and}$$

$$\text{Overburden removal(PE)} = 3.94 \text{ lb PE/hr of operation} \times \text{HPY} \times \text{CE}/2000$$

Total PE = the sum of the above four results

where

PR = the annual limestone production rate,

CE = control efficiency, assumed to be 0.5 for wet suppression,

TS = 0.125 lb topsoil removed per lb of limestone produced, and

HPY = 4600 hours per year (this is a maximum assumption, using maximum plant operating hours)

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VI. **Miscellaneous Requirements**

1. None

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**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **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>
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Limestone mining operations		
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2. **Additional Terms and Conditions**

1. None

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II. **Operational Restrictions**

1. None

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III. **Monitoring and/or Record Keeping Requirements**

1. None

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IV. **Reporting Requirements**

1. None

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V. **Testing Requirements**

1. None

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VI. **Miscellaneous Requirements**

1. None