INTRODUCTION

PTI #03-13050 serves to permit a portable aggregate processing plant for the National Lime and Stone Company. The plant, which is to be located at the Carey facility, consists of two emissions units, F016 (storage piles) and F017 (primary, secondary, and tertiary crushing, screening and conveying). Roadways were not included in this permit because the portable plant will be located at a facility that has existing roadway permits.

Emissions for F017 were based on AP-42 Table 11.19.2-2 (Emission Factors for Crushed Stone Operations). AP-42 applies a moisture content of 1.5% to achieve emission calculations.

A. APPLICABLE EMISSION LIMITATIONS AND/OR CONTROL REQUIREMENTS

1. There shall be no visible particulate emissions from any material storage piles except for a period of time not to exceed 1 minute during any 60-minute observation period.

2. The permittee shall comply with the requirements of this permit by spraying water, or any other suitable dust suppressant, on all storage piles on an "as needed by observation" basis, with weather conditions considered.

3. Particulate emissions (PE) from the storage piles shall not exceed 8.50 tons per year (4.08 tons particulate emissions of PM_{10} per year).

3. Particulate emissions from the aggregate processing operations covered by emissions unit F017 shall not exceed 31.13 tons per year (14.55 tons particulate emissions of PM_{10} per year).

4. Visible particulate emissions from the aggregate processing equipment included under this permit shall not exceed the following opacity restrictions:

Emissions Point	Equipment Type	Opacity Limit	Regulation Applicability
Grizzly Feeder	screen	10%	NSPS
Primary Impact Crusher (1000 tph)	crusher	15%	NSPS

Primary Impact Crusher Run-Out Conveyor PC1-Field Conveyor #1	transfer point	10%	NSPS
Field Conveyor #1 - Field Conveyor #2	transfer point	10%	NSPS
Field Conveyor #2 - Field Conveyor #3	transfer point	10%	NSPS
Field Conveyor #3 - Field Conveyor #4	transfer point	10%	NSPS
Field Conveyor #4 - Field Conveyor #5	transfer point	10%	NSPS
Field Conveyor #5 - Conveyor #2	transfer point	10%	NSPS
Conveyor #2 - Surge Bin	transfer point	10%	NSPS
Surge Bin - Conveyor #3	transfer point	10%	NSPS
Conveyor #3 - Conveyor #4	transfer point	10%	NSPS
Conveyor #4 - Primary Screen	transfer point	10%	NSPS
Primary Screen	screen	10%	NSPS
Primary Screen - Conveyor #7	transfer point	10%	NSPS
Conveyor #7 - Conveyor #8	transfer point	10%	NSPS
Conveyor #8 - Conveyor #9	transfer point	10%	NSPS

Conveyor #9 - Storage Pile or Storage Bin	storage pile	No visible emissions except for a period of time not to exceed one minute during any 60-minute observation period	3745-31-05
Primary Screen - Secondary Crusher	transfer point	10%	NSPS
Secondary Crusher (750 tph)	crusher	15%	NSPS
Secondary Crusher and/or Primary Screen - Conveyor #10	transfer point	10%	NSPS
Conveyor #10 - Secondary Screen	transfer point	10%	NSPS
Secondary Screen	screen	10%	NSPS
Secondary Screen - Conveyor #16	transfer point	10%	NSPS
Conveyor #16 - Conveyor #22	transfer point	10%	NSPS
Conveyor #22 - Conveyor #23	transfer point	10%	NSPS
Conveyor #23 - Conveyor #24	transfer point	10%	NSPS

Conveyor #24 - Storage Pile or Storage Bin	storage pile	No visible emissions except for a period of time not to exceed one minute during any 60-minute observation period	3745-31-05
Secondary Screen - Conveyor #17	transfer point	10%	NSPS
Conveyor #17 - Conveyor #21	transfer point	10%	NSPS
Conveyor #21 - Tertiary Screen	transfer point	10%	NSPS
Tertiary Screen	screen	10%	NSPS
Tertiary Screen - Conveyor #19	transfer point	10%	NSPS
Conveyor #19 - Conveyor #20	transfer point	10%	NSPS
Conveyor #20 - Conveyor #31	transfer point	10%	NSPS
Conveyor #31 - Conveyor #11	transfer point	10%	NSPS
Conveyor #11 - Tertiary Crusher	transfer point	10%	NSPS
Tertiary Crusher (300 tph)	crusher	15%	NSPS
Tertiary Crusher - Conveyor #10	transfer point	10%	NSPS
Conveyor #15 - Conveyor #11	transfer point	10%	NSPS
Tertiary Screen - Conveyor #19	transfer point	10%	NSPS

Conveyor #19 - Conveyor #25	transfer point	10%	NSPS
Conveyor #25 - Conveyor #26	transfer point	10%	NSPS
Conveyor #26 - Conveyor #27	transfer point	10%	NSPS
Conveyor #27 - Storage Pile	storage pile	No visible emissions except for a period of time not to exceed one minute during any 60-minute observation period	3745-31-05
Tertiary Screen - Conveyor #18	transfer point	10%	NSPS
Conveyor #18 - Conveyor #28	transfer point	10%	NSPS
Conveyor #28 - Conveyor #29	transfer point	10%	NSPS
Conveyor #29 - Conveyor #30	transfer point	10%	NSPS
Conveyor #30 - Storage Pile	storage pile	No visible emissions except for a period of time not to exceed one minute during any 60-minute observation period	3745-31-05

3. Visible particulate emissions from the truck dumping of nonmetallic minerals into the primary crusher feed hopper and the transfer of nonmetallic mineral from conveyors to surge piles shall not exceed 20 percent opacity, as a three-minute average. The permittee shall employ work practices and/or maintain a moisture content in the stone that are sufficient to comply with this opacity restriction at all times.

4. The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F017. If the inherent moisture in the stone is not sufficient to comply with the opacity restrictions of this permit, the permittee shall apply water, or any other suitable dust suppressant, at a rate sufficient to comply with the applicable opacity restriction.

B. OPERATIONAL RESTRICTIONS

1. The permittee shall not exceed 3,000,000 tons per year of aggregate processed in emissions unit F017. This restriction is based on the stone throughput of the primary crusher.

2. The permittee shall maintain at least a 1.5%, by weight, moisture content in the aggregate processed by emissions unit F017.

3. This facility shall submit a "Notice of Intent to Relocate a Portable or Mobile Source" form 30 days prior to any planned relocation of this source, in accordance with OAC rule 3745-31-03 (N)(1)(3). Approval of the planned relocation must be obtained from the NWDO prior to the relocation.

C. **MONITORING AND/OR RECORD KEEPING REQUIREMENTS**

1. The permittee shall maintain monthly records of the quantity of stone processed (in tons/month) through the primary crusher for emissions unit F017.

2. For each month, the permittee shall also calculate the annual, year-to-date, amount of stone processed through the primary crusher for emissions unit F017.

3. All records, as well as any supporting analysis, shall be

retained in the company's files for a period of not less then five years and shall be made available to Ohio EPA personnel for review during normal business hours.

D. **REPORTING REQUIREMENTS**

1. The permittee shall submit quarterly written reports summarizing the following:

   a. any deviations (excursions) from emission limitations and operational restrictions that have been detected by testing, monitoring, and record keeping requirements specified in this permit;

   b. the probable cause of such deviations; and

   c. any corrective actions that or preventive measures that have been or will be taken.

   If no deviations occurred during the calendar quarter, the permittee shall submit a quarterly report which states that no deviations occurred during the quarter.

   The reports shall be submitted by January 31, April 30, July 31, and October 31 of each year and shall cover the previous calendar quarters (these quarterly reports shall exclude deviations resulting from malfunctions reported in accordance with OAC rule 3745-15-06). All reports shall be submitted to the Northwest District Office.

E. **COMPLIANCE METHODS/TESTING REQUIREMENTS**

1. Compliance Methods Requirements: Compliance with the emission limitation(s) in sections A.1. through A.3. and the Air Emission Summary page of these terms and conditions shall be determined in accordance with the following method(s);

   For Emissions Unit F016

   a. Emission Limitation: 4.08 TPY of PM_{10} and 8.50 TPY of PM

      Applicable Compliance Method: Compliance with the emissions limitations may be determined by calculating the annual PM emission rate through use of AP-42 emission factors [section 11.9.2. (7/94)].

   b. Emission Limitation: No visible emissions except

for a period of time not to exceed 1 minute during any 60-minute observation period.

Applicable Compliance Method: OAC rule 3745-17-03(B)(4).

For Emissions Unit F017

c. Emission Limitation: 14.55 TPY of PM_{10} and 31.13 TPY of PM

Applicable Compliance Method: These limits were established using AP-42 and production restriction specifications outlined in section B.1 of these terms and conditions.

d. Emission Limitation: 10% opacity for transfer points and screens.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A.

e. Emission Limitation: 15% opacity for the primary crusher, secondary, and tertiary crushers.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A.

f. Emission Limitation: truck dumping of nonmetallic minerals into the primary crusher feed hopper, the transfer of nonmetallic mineral from conveyors to surge piles -20 percent opacity as a three-minute average or no visible emissions from the secondary crusher and/or the sink/float building.

Applicable Compliance Method: Method 9 of 40 CFR Part 60, Appendix A.

2. Testing Requirements: The permittee shall conduct, or have conducted, emission testing for emissions unit F017 in accordance with the following requirements:

a. The emission testing shall be conducted between 60 and 180 days after initial startup.

b. The emission testing shall be conducted on all "affected facilities," as defined in 40 CFR Part 60 subpart OOO, to demonstrate compliance with the opacity restrictions contained in condition A.4

above.

c. The following test methods shall be employed to demonstrate compliance with the allowable opacity restrictions:

1. Visible emissions of fugitive dust: Method 9 of 40 CFR Part 60, Appendix A and the procedures in 40 CFR Part 60.11, with the following additions:

a. The minimum distance between the observer and the emissions source shall be 4.57 meters (15 feet).

b. The observer shall, when possible, select a position that minimizes interference from other fugitive emission sources (e.g., road dust). The required observer position relative to the sun (Method 9, section 2.1) must be followed.

c. The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the appropriate Ohio EPA district office or local air agency.

d. When determining compliance with the fugitive emissions standard for any screening operation, belt conveyor, storage bin or enclosed truck loading station, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute averages) only if the following conditions apply:

i. There are no individual readings greater than 10 percent opacity; and

ii. There are no more than 3 readings of 10 percent for the 1-hour period.

e. When determining compliance with the 15% opacity restriction for the crusher, the duration of the Method 9 observations may be reduced from 3 hours (thirty 6-minute averages) to 1 hour (ten 6-minute

averages) only if the following conditions apply:

i. There are no individual readings greater than 15 percent opacity; and

ii. There are no more than 3 readings of 15 percent for the 1-hour period.

f. When wet suppression is used for particulate control, a visible mist is sometimes generated by the spray. The water mist must not be confused with particulate matter emissions and is not to be considered a visible emission. When a water mist of this nature is present, the observation of emissions is to be made at a point in the plume where the mist is no longer visible.

Not later than 30 days prior to the proposed test date, the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Northwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time and date of the test, and the person who will be conducting the test. Failure to submit such notification for review and approval prior to the test may result in the Northwest District Office's refusal to accept the results of the emission test.

Personnel from the Northwest District Office shall be permitted to witness the test, examine the testing equipment and acquire data and information necessary to ensure that the operation of the emissions units and the testing procedures provide a valid characterization of the emissions from the emissions units and/or the performance of the control equipment.

A comprehensive written report on the results of the emissions test(s) shall be signed by the person(s) responsible for the tests and submitted to the Northwest District Office within 30 days following completion of the test(s).

F. **MISCELLANEOUS REQUIREMENTS**

None