

AIR EMISSIONS SUMMARY

The air contaminant emissions units listed below comprise the Permit to Install for Martin Marietta Magnesia Specialties, Inc. located in Sandusky County. The emissions units listed below shall not exceed the emission limits/control requirements contained in the table below. This condition in no way limits the applicability of any other state or federal regulations. Additionally, this condition does not limit the applicability of additional special terms and conditions of this permit.

<u>OHIO EPA E.U. NUMBER</u>	<u>EMISSIONS UNIT IDENTIFICATION DESCRIPTION</u>	<u>BAT DETERMINATIO N</u>	<u>APPLICABLE FEDERAL & OAC RULES</u>	<u>PERMIT ALLOWABLE MASS EMISSIONS OR CONTROL & USAGE REQUIREMENTS</u>
F005 (Modification)	700 TPH Primary, secondary and tertiary aggregate processing line-Modification to tertiary crusher, transfer and screening system	Compliance with the terms and conditions of this permit and compliance with NSPS requirements	3745-31-05	8.13 TPY PM ₁₀ 17.08 TPY TSP (See AST&C, section A) 10% opacity for specific transfer points, screens, and storage bins (See AST&C, section A) 15% opacity for specific crushers (See AST&C, section A)
			40 CFR Part 60, Subpart OOO	10% opacity for specific transfer points, screens, and storage bins (See AST&C, section A)
			3745-17-07(B)(1)	20% opacity, as a 3-minute average for specific transfer points, screens, crushers, and storage bins (See AST&C, section A)
			3745-17-08(B)	Use of reasonably available control measures to minimize dust emissions (See AST&C's)

SUMMARY
TOTAL PERMIT TO INSTALL ALLOWABLE EMISSIONS

<u>Pollutant</u>	<u>Tons/Year</u>
PM ₁₀	8.13*
TSP	17.08*

*NOTE: This PTI will result in an increase of 0.29 TPY PM₁₀ and 0.61 TPY TSP over the previous permit limit as a result of this modification of the tertiary crushing system.

Additional Special Terms and Conditions

Introduction:

The purpose of this permit to install (PTI) modification for the aggregate processing line, emissions unit F005, is to allow the installation of a conveying system to deliver limestone to the south kilns and stone plant. The conveying system consists of five new belt conveyors, one new stack belt conveyor, and one existing belt conveyor. The aggregate processing line also includes the primary and secondary crushing, screening, and conveying operations that are not being affected by this modification.

A. Applicable Emission Limitations and/or Control Requirements:

1. Fugitive particulate emissions from the aggregate processing operations covered by emissions unit F005 shall not exceed 17.08 tons per year (8.13 tons PM10 per year).
2. Visible particulate emissions from the aggregate processing equipment included under this permit shall not exceed the following opacity restrictions:

Emissions Point (Company ID)	Equipment Type	Opacity Limit	Regulatory Basis for Limit
29-1953 to 32-0133	Transfer pt.	20%	3745-17-07(B)(1)
32-0133	Crusher	20%	3745-17-07(B)(1)
32-0133 to 29-1332	Transfer pt.	20%	3745-17-07(B)(1)
29-1332 to 29-1331	Transfer pt.	20%	3745-17-07(B)(1)
29-1331 to 53-0320	Transfer pt.	20%	3745-17-07(B)(1)
53-0320 to 29-3893	Transfer pt.	10%	NSPS, Subpart OOO
53-0320	Screen	20%	3745-17-07(B)(1)
32-0134	Crusher	20%	3745-17-07(B)(1)
32-0134 to 29-3893	Transfer pt.	10%	NSPS, Subpart OOO

29-3893 to 29-3894	Transfer pt.	10%	NSPS, Subpart OOO
29-3894 to 29-3895	Transfer pt.	10%	NSPS, Subpart OOO
29-3895 to 53-0327	Transfer pt.	10%	NSPS, Subpart OOO
29-3895 to 53-0326	Transfer pt.	10%	NSPS, Subpart OOO
53-0327	Screen	10%	3745-31-05
53-0326	Screen	10%	3745-31-05
32-0459	Crusher	15%	3745-31-05
32-0459 to 29-3896	Transfer pt.	10%	NSPS, Subpart OOO
29-3896 to 29-3894	Transfer pt.	10%	NSPS, Subpart OOO
53-0327 to 29-3898	Transfer pt.	10%	NSPS, Subpart OOO
53-0326 to 29-3898	Transfer pt.	10%	NSPS, Subpart OOO
53-0327 to 29-3897	Transfer pt.	10%	NSPS, Subpart OOO
53-0326 to 29-3897	Transfer pt.	10%	NSPS, Subpart OOO
29-3898 to 29-3899	Transfer pt.	10%	NSPS, Subpart OOO
29-3899 to 29-3900	Transfer pt.	10%	NSPS, Subpart OOO
29-3897 to 29-1329	Transfer pt.	10%	NSPS, Subpart OOO
29-1329 to 29-1330	Transfer pt.	10%	3745-31-05
29-1933 to 29-1328	Transfer pt.	10%	3745-31-05
29-1927 to 29-1328	Transfer pt.	10%	3745-31-05
29-1928 to 29-1328	Transfer pt.	10%	3745-31-05
29-1965 to 29-1328	Transfer pt.	10%	3745-31-05
29-1931 to 29-1328	Transfer pt.	10%	3745-31-05
29-1932 to 29-1328	Transfer pt.	10%	3745-31-05

29-1929 to 29-1328	Transfer pt.	10%	3745-31-05
29-1930 to 29-1328	Transfer pt.	10%	3745-31-05
29-1328 to 29-2168	Transfer pt.	10%	NSPS, Subpart OOO
29-1328 to 4x8 screen	Transfer pt.	10%	NSPS, Subpart OOO
4x8 screen	Screen	10%	NSPS, Subpart OOO
4x8 screen to 29-1325	Transfer pt.	10%	NSPS, Subpart OOO
4x8 screen to screen belt	Transfer pt.	10%	NSPS, Subpart OOO
screen belt to radial stacker	Transfer pt.	10%	NSPS, Subpart OOO
29-1325 to 29-3912	Transfer pt.	10%	NSPS, Subpart OOO
29-2168 to 29-3912	Transfer pt.	10%	NSPS, Subpart OOO
29-3912 to 29-3756	Transfer pt.	10%	NSPS, Subpart OOO
29-3912 to Stone Bin #5	Transfer pt.	10%	NSPS, Subpart OOO
29-3756 to Stone Bin #5	Transfer pt.	10%	3745-31-05
Stone Bin #5	Storage Bin	10%	3745-31-05
29-3756 to Stone Bin #6	Transfer pt.	10%	3745-31-05
Stone Bin #6	Storage Bin	10%	3745-31-05
29-3756 to 29-1316	Transfer pt.	10%	3745-31-05
29-1316 to Stone Bin #4	Transfer pt.	10%	3745-31-05

Stone Bin #4	Storage Bin	10%	3745-31-05
29-3898 to Primary Transfer Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
Primary Transfer Belt Conveyor to Secondary Transfer Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
Secondary Transfer Belt Conveyor to Main Haulage Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
Pile A to Main Haulage Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
Pile B to Main Haulage Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
Main Haulage Belt Conveyor to South Transfer Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
South Transfer Belt Conveyor to Stacker Feed Belt Conveyor*	Transfer pt.	10%	NSPS, Subpart OOO
Stacker Feed Belt Conveyor to Elevating Radial Stacker*	Transfer pt.	10%	NSPS, Subpart OOO

*Note: Compliance with the opacity restrictions for these emission points shall be achieved on and after the sixtieth day after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup.

3. The permittee shall employ reasonably available control measures to minimize or eliminate visible emissions of fugitive dust from emissions unit F005. If the inherent moisture in the stone is not sufficient to comply with the opacity restrictions of this permit, the permittee shall install equipment to apply water, or any other suitable dust suppressant, at appropriate locations on the line.

B. Operational Restrictions:

1. The permittee shall not exceed 4,576,000 tons per year of aggregate processed in emissions unit F005. 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 F005.

C. Monitoring and/or Record Keeping Requirements:

1. The permittee shall maintain monthly records of the amount (tons per month and total tons, to date, for the calendar year) of aggregate processed through the primary crusher of emissions unit F005.

D. Reporting Requirements:

1. The permittee shall submit quarterly written reports for emissions unit F005 of (a) any deviations (excursions) from emission limitations, operational restrictions, and control device operating parameter limitations that have been detected by the testing, monitoring, and recordkeeping requirements specified in this permit, (b) the probable cause of such deviations, and (c) any corrective actions or preventive measures which have been or will be taken, shall be submitted to the appropriate Ohio EPA District Office or local air agency. If no deviations occurred during a calendar quarter, the permittee shall submit a quarterly report, which states that no deviations occurred during that quarter. The reports shall be submitted quarterly, i.e., 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.)
2. The compliance status of the emissions unit shall be reported pursuant to the annual certification required by OAC rule 3745-77-07(C)(5).
3. The actual annual emissions data for the emissions unit shall be reported pursuant to the fee emissions report required by OAC rule 3745-78-02(A).
4. All records, as well as any supporting analysis, shall be retained in the company's files for a period of not less than five years and shall be made available to

the Director or any authorized representative of the Director for review during normal business hours. All reports are to be submitted to the Ohio EPA, Northwest District Office, Division of Air Pollution Control, 347 North Dunbridge Road, Bowling Green, Ohio 43402.

E. Compliance methods and Testing Requirements:

1. Compliance Methods Requirements:

Compliance with the emission limitation(s) in Section 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);

- (a) Emission Limitation:
8.13 TPY of PM₁₀ and 17.08 TPY of TSP

Applicable Compliance Method:
Compliance with the emissions limitations shall be determined in accordance with the record keeping specified in section C above and emissions factors in AP42 Table 11.19.2-2.

- (b) Emission Limitation:
10% opacity for specific transfer points, screens and storage bins

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

- (c) Emission Limitation:
15% opacity for specific crushers

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

- (d) Emission Limitation:
20% opacity for specific transfer points, screens and storage bins

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

2. Emission Testing Requirements:

The permittee shall conduct, or have conducted, emission testing for the following affected emission points of emissions unit F005: 29-3898 to Primary Transfer Belt Conveyor, Primary Transfer Belt Conveyor to

Secondary Transfer Belt Conveyor, Secondary Transfer Belt Conveyor to Main Haulage Belt Conveyor, Pile A to Main Haulage Belt Conveyor, Pile B to Main Haulage Belt Conveyor, Main Haulage Belt Conveyor to South Transfer Belt Conveyor, South Transfer Belt Conveyor to Stacker Feed Belt Conveyor, Stacker Feed Belt Conveyor to Elevating Radial Stacker

Testing shall be conducted in accordance with the provisions of 40 CFR Part 60, Subpart A, Section 60.8 and 40 CFR Part 60, Subpart OOO, Section 60.675.

The emission testing shall be conducted within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Ohio Environmental Protection Agency, Division of Air Pollution Control. The emission testing shall be conducted to demonstrate compliance with the allowable visible emission rates for particulate emissions.

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

- (a) Method 9 of 40 CFR Part 60, Appendix A shall be used to determine opacity.

The tests shall be conducted while the emissions unit is operating at or near its maximum capacity, unless otherwise specified or approved by the Ohio Environmental Protection Agency, Division of Air Pollution Control. Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio Environmental Protection Agency, Division of Air Pollution Control. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operation parameters, the times and dates of the tests, and the person(s) who will be conducting the tests. Failure to submit such notification for review and approval prior to the tests may result in the Ohio EPA District Office's air agency's refusal to accept the results of the emission tests.

Personnel from the Ohio EPA District Office's air agency 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 unit and the testing procedures provide a valid characterization of the emissions unit and /or the performance of the control equipment. A comprehensive written report on the emissions tests shall be signed by the person or

persons responsible for the tests and submitted to the Ohio Environmental Protection Agency, Division of Air Pollution Control within 30 days following completion of the tests.

Note: No term or condition specifying a method for demonstrating compliance with any emission limitation or other requirement of this permit shall preclude the use by any person of any credible evidence to establish compliance with or a violation of this permit, the Clean Air Act, or any implementing regulations or rules promulgated thereunder.

F. Miscellaneous requirements:

1. The terms and conditions of this PTI shall supersede the terms and conditions for this emissions unit established by PTI application number 03-10989 issued on March 11, 1998.