

Facility DEC ID: 5155200005

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 5-1552-00005/00133
Effective Date: Expiration Date:

Permit Issued To: Imerys Wollastonite USA LLC
100 Mansell Ct E
Suite 300
Roswell, Ga 30076-8847

Contact: Victoria Siskavich
IMERYS Wollastonite USA LLC
803 Mountain View Dr
Willsboro, NY 12996
(518) 963-2148

Facility: IMERYS WOLLASTONITE PLANT
803 MOUNTAIN VIEW DR
Willsboro, NY 12996

Description:

Imerys Wollastonite USA LLC produces a range of products derived from wollastonite (calcium metasilicate) ore. The ore is open pit mined and transported to the Willsboro plant for processing. The facility consists of two processing plants and supporting operations. The facility operates several crushing, screen, separating, mixing, and drying operations.

The facility is capping out of the major source threshold, which would otherwise require a Title V Facility Permit, by limiting facility-wide emissions of volatile organic compounds (VOCs) to not exceed 98,000 pounds per year, Total Hazardous Air Pollutants (HAPs) to not exceed 49,000 pounds per year and individual HAPS to not exceed 19,000 pounds per year.

As part of this renewal issuance, the facility is removing the regenerative thermal oxidizer (RTO) from their mixing operation. This RTO was installed in July 2015 as an emission control in anticipation of an increased need to maintain emissions below the major source threshold, however, the need for an RTO was deemed non-essential and subsequently recommended for removal.

An analysis, as required by the Climate Leadership and Community Protection Act (CLCPA), was submitted with the facility's permit renewal application. The analysis demonstrated that removal of the RTO will not result in an increase in greenhouse gas emissions, therefore demonstrating consistency with the goals established in the CLCPA.

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By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

Permit Administrator: ERIN M DONHAUSER
NYSDEC - REGION 5
PO BOX 296
RAY BROOK, NY 12977-0296

Authorized Signature: _____ Date: ___ / ___ / ___

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

The permittee expressly agrees to indemnify and hold harmless the Department of Environmental Conservation of the State of New York, its representatives, employees and agents ("DEC") for all claims, suits, actions, and damages, to the extent attributable to the permittee's acts or omissions in connection with the compliance permittee's undertaking of activities in connection with, or operation and maintenance of, the facility or facilities authorized by the permit whether in compliance or not in any compliance with the terms and conditions of the permit. This indemnification does not extend to any claims, suits, actions, or damages to the extent attributable to DEC's own negligent or intentional acts or omissions, or to any claims, suits, or actions naming the DEC and arising under article 78 of the New York Civil Practice Laws and Rules or any citizen suit or civil rights provision under federal or state laws.

Item B: Permittee's Contractors to Comply with Permit

The permittee is responsible for informing its independent contractors, employees, agents and assigns of their responsibility to comply with this permit, including all special conditions while acting as the permittee's agent with respect to the permitted activities, and such persons shall be subject to the same sanctions for violations of the Environmental Conservation Law as those prescribed for the permittee.

Item C: Permittee Responsible for Obtaining Other Required Permits

The permittee is responsible for obtaining any other permits, approvals, lands, easements and rights-of-way that may be required to carry out the activities that are authorized by this permit.

Item D: No Right to Trespass or Interfere with Riparian Rights

This permit does not convey to the permittee any right to trespass upon the lands or interfere with the riparian rights of others in order to perform the permitted work nor does it authorize the impairment of any rights, title, or interest in real or personal property held or vested in a person not a party to the permit.

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DEC GENERAL CONDITIONS
 **** General Provisions ****
GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department
Applicable State Requirement: ECL 19-0305

Item 1.1:

The permitted site or facility, including relevant records, is subject to inspection at reasonable hours and intervals by an authorized representative of the Department of Environmental Conservation (the Department) to determine whether the permittee is complying with this permit and the ECL. Such representative may order the work suspended pursuant to ECL 71-0301 and SAPA 401(3).

Item 1.2:

The permittee shall provide a person to accompany the Department's representative during an inspection to the permit area when requested by the Department.

Item 1.3:

A copy of this permit, including all referenced maps, drawings and special conditions, must be available for inspection by the Department at all times at the project site or facility. Failure to produce a copy of the permit upon request by a Department representative is a violation of this permit.

Condition 2: Relationship of this Permit to Other Department Orders and Determinations
Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2.1:

Unless expressly provided for by the Department, issuance of this permit does not modify, supersede or rescind any order or determination previously issued by the Department or any of the terms, conditions or requirements contained in such order or determination.

Condition 3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

The permittee must submit a separate written application to the Department for renewal, modification or transfer of this permit. Such application must include any forms or supplemental information the Department requires. Any renewal, modification or transfer granted by the Department must be in writing.

Item 3.2:

The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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Condition 4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

The Department reserves the right to exercise all available authority to modify, suspend, or revoke this permit in accordance with 6NYCRR Part 621. The grounds for modification, suspension or revocation include:

- a) materially false or inaccurate statements in the permit application or supporting papers;
- b) failure by the permittee to comply with any terms or conditions of the permit;
- c) exceeding the scope of the project as described in the permit application;
- d) newly discovered material information or a material change in environmental conditions, relevant technology or applicable law or regulations since the issuance of the existing permit;
- e) noncompliance with previously issued permit conditions, orders of the commissioner, any provisions of the Environmental Conservation Law or regulations of the Department related to the permitted activity.

****** Facility Level ******

Condition 5: Submission of application for permit modification or renewal-REGION 5 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 5 Headquarters
Division of Environmental Permits
Route 86, PO Box 296
Ray Brook, NY 12977-0296
(518) 897-1234

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY PERMIT

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Permit Issued To: Imerys Wollastonite USA LLC
100 Mansell Ct E
Suite 300
Roswell, Ga 30076-8847

Facility: IMERYS WOLLASTONITE PLANT
803 MOUNTAIN VIEW DR
Willsboro, NY 12996

Authorized Activity By Standard Industrial Classification Code:
3295 - MINERALS, GROUND OR TREATED
1429 - CRUSHED AND BROKEN STONE NEC

Permit Effective Date:

Permit Expiration Date:

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- 18 12 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 18 13 6 NYCRR Subpart 201-5: Emission Unit Definition
- 19 14 6 NYCRR 201-5.2 (c): Renewal deadlines for state facility permits
- 20 15 6 NYCRR 201-5.3 (c): CLCPA Applicability
- 20 16 6 NYCRR 201-5.3 (c): Compliance Demonstration
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- 21 18 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 25 19 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 2/DRAFT

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation. Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

No person shall operate any air contamination source sealed by the Commissioner in accordance with this section unless a modification has been made which enables such source to comply with all requirements applicable to such modification.

Unless authorized by the Commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section.

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Item C: Maintenance of Equipment - 6 NYCRR 200.7

Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer's specifications,

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required to operate such device effectively.

Item D: Unpermitted Emission Sources - 6 NYCRR 201-1.2

(a) Except as otherwise provided by this Part, construction or operation of a new, modified or existing air contamination source without a registration or permit issued pursuant to this Part is prohibited.

(b) If an existing facility or emission source was subject to the permitting requirements of this Part at the time of construction or modification, and the owner or operator failed to apply for a permit or registration as described in this Part, the owner or operator must apply for a permit or registration in accordance with the provisions of this Part. The facility or emission source is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing emission sources.

Item E: Recycling and Salvage - 6 NYCRR 201-1.7

Where practical, any person who owns or operates an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of 6 NYCRR.

Item F: Prohibition of Reintroduction of Collected Contaminants to the Air - 6 NYCRR 201-1.8

No person shall unnecessarily remove, handle, or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Item G: Proof of Eligibility for Sources Defined as Exempt Activities - 6 NYCRR 201-3.2 (a)

The owner and/or operator of an emission source or unit that is eligible to be exempt, may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request.

Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item H: Proof of Eligibility for Sources Defined as Trivial

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Activities - 6 NYCRR 201-3.3 (a)

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart 201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Item I: Required Emission Tests - 6 NYCRR 202-1.1

An acceptable report of measured emissions shall be submitted, as may be required by the Commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation. Failure to submit a report acceptable to the Commissioner within the time stated shall be sufficient reason for the Commissioner to suspend or deny an operating permit. Notification and acceptable procedures are specified in 6 NYCRR Subpart 202-1.

Item J: Open Fires Prohibitions - 6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

Item K: Permit Exclusion - ECL 19-0305

The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

Item L: Federally Enforceable Requirements - 40 CFR 70.6 (b)

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All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 1: Facility Permissible Emissions
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1.1:

The sum of emissions from the emission units specified in this permit shall not equal or exceed the following

Potential To Emit (PTE) rate for each regulated contaminant:

| | |
|---|-----------------------------|
| CAS No: 000067-56-1 Name: METHYL ALCOHOL | PTE: 19,000 pounds per year |
| CAS No: 0NY100-00-0 Name: TOTAL HAP | PTE: 49,000 pounds per year |
| CAS No: 0NY998-00-0 Name: VOC | PTE: 98,000 pounds per year |

Condition 2: Capping Monitoring Condition
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 2.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 2.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

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Item 2.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 2.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 2.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 2.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000067-56-1 METHYL ALCOHOL

Item 2.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Facility-wide emissions of any individual Hazardous Air Pollutants (HAPs) shall not exceed 9.5 tons per year (19,000 lbs / year) as determined by summing monthly methanol and non-methanol HAP emissions during any consecutive 12-month period. Records shall be maintained on-site which demonstrate compliance with the individual HAP cap. These records shall include mass emissions totaled over each month and the total mass emissions over each rolling 12-month period. Calculations of mass emissions are based on actual pounds of HAPs created in the mixing and pilot processes plus HAPs from combustion and exempt sources using emission factors at PTE levels.

Parameter Monitored: METHYL ALCOHOL

Upper Permit Limit: 9.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
 Subsequent reports are due every 12 calendar month(s).

**Condition 3: Capping Monitoring Condition
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 3.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 3.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 3.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 3.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 3.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
 CAS No: 0NY998-00-0 VOC

Item 3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes
 Monitoring Type: MONITORING OF PROCESS OR CONTROL
 DEVICE PARAMETERS AS SURROGATE

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Monitoring Description:

Facility-wide emissions of VOCs shall not exceed 49 tons per year (98,000 lbs / year) as determined by summing monthly VOC emissions during any consecutive 12-month period. Records shall be maintained on-site which demonstrate compliance with the VOC cap. These records shall include mass emissions totaled over each month and the total mass emission over each rolling 12-month period. Calculations of mass emissions are based on actual pounds of VOCs created in the mixing and pilot processes plus VOCs from combustion and exempt sources using emission factors at PTE levels.

Parameter Monitored: VOC

Upper Permit Limit: 49 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

**Condition 4: Capping Monitoring Condition
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR Subpart 201-7****Item 4.1:**

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 201-6

Item 4.2:

Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 4.3:

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

Item 4.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

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Item 4.5:

The emission of pollutants that exceed the applicability thresholds for an applicable requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 4.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY100-00-0 TOTAL HAP

Item 4.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Facility-wide emissions of Hazardous Air Pollutants (HAPs) shall not exceed 24.5 tons per year (49,000 lbs / year) as determined by summing monthly Total HAP emissions during any consecutive 12-month period. Records shall be maintained on-site which demonstrate compliance with the Total HAP cap. These records shall include mass emissions totaled over each month and the total mass emissions over each rolling 12-month period. Calculations of mass emissions are based on actual pounds of HAPs created in the mixing and pilot processes plus HAPs from combustion and exempt sources using emission factors at PTE levels.

Parameter Monitored: TOTAL HAP

Upper Permit Limit: 24.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 12 calendar month(s).

Condition 5: Visible Emissions Limited
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 211.2

Item 5.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 6: Determination of Environmental Rating

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Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 212-1.3

Item 6.1:

In accordance with the applicability requirements of Section 212-1.1 of this Part, the department will assign an environmental rating for each air contaminant emitted from each process emission source or emission point in accordance with Subdivisions (a) through (e) of this Section. The factors in Subdivisions (a) through (d) will be considered in making a determination of the environmental rating to be applied to an air contaminant pursuant to subdivision (e), Table 1 - Environmental Rating Criteria.

(a) Toxic and other properties and emission rate potential of the air contaminant;

(b) location of the process emission source or emission point(s) for the air contaminant with respect to residences or other sensitive environmental receptors, taking into account the area's anticipated growth;

(c) emission dispersion characteristics at or near the process emission source or emission point(s), taking into account the physical location of the process emission source or emission point(s) relative to the surrounding buildings and terrain; and

(d) the projected maximum cumulative impact of an air contaminant taking into account emissions from all process emission sources at the facility under review and the pre-existing ambient concentration of the air contaminant under review.

Condition 7: Compliance Demonstration
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 212-1.6 (a)

Item 7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL
DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. The Department reserves the right to perform or require the performance of an EPA Reference Test Method 9 opacity evaluation at any time during facility operation.

The facility owner or operator shall conduct a visible emissions observation of all emission points specified by

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this condition once per day while the process is in operation. The facility owner or operator will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard specified below.

The facility owner or operator shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the limit specified (except the emission of uncombined water) are observed for three consecutive operating days from the same emission point, the facility owner or operator will notify the Department of the observations within one business day. The facility owner or operator will also perform an EPA Reference Test Method 9 opacity evaluation analysis of the affected emission point and submit the results to the Department.

Daily records of the visible emissions observations, any follow-up Method 9 observations, investigations, and corrective actions taken are to be maintained on site for a period of at least five years from the date of the record. Such records shall include the date and time of each observation, weather conditions, results of the observation, corrective actions taken, and explanations for days when weather conditions were prohibitive.

All records kept pursuant to this condition must be provided to the Department upon request.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Reference Test Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 8: Compliance Demonstration
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 212-2.4 (b)

Item 8.1:

The Compliance Demonstration activity will be performed for the facility:
The Compliance Demonstration applies to:

Emission Unit: 1-CRUSH

Emission Unit: 1-GRIND

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Emission Unit: 1-MIXER

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions of solid particles from process sources are limited to less than 0.05 grains per cubic foot of exhaust gas, expressed at standard conditions on a dry basis. Compliance testing will be conducted at the discretion of the Department.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.05 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 9: Compliance Demonstration
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 225-1.2 (d)

Item 9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The boilers at the facility typically run on liquid propane fuel, however in the event that propane is not available, owners or operators of emission sources that fire distillate oil are limited to 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department-approved alternative location for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

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Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.0015 percent by weight
 Monitoring Frequency: PER DELIVERY
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
 TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 12 calendar month(s).

**Condition 10: Compliance Demonstration
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 227-1.4 (a)

Item 10.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil firing emission sources subject to 6 NYCRR Subpart 227-1 which do not employ a continuous opacity monitor for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack for each emission source which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).
- 2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:
 - date and time of day
 - observer's name
 - identity of the emission point
 - weather conditions
 - was a plume observed?

Incident weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

- 3) If the operator observes any visible emissions (other than steam - see below) for two consecutive days while firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the

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consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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STATE ONLY ENFORCEABLE CONDITIONS

****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) an emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) the equipment at the facility was being properly operated and maintained;

(3) during the period of the emergency the facility owner or operator took all reasonable steps to minimize the levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) the facility owner or operator notified the department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or malfunction provision contained in any applicable requirement.

Item B: Public Access to Recordkeeping for Facilities With State Facility Permits - 6 NYCRR 201-1.10 (a)

Where facility owners and/or operators keep records pursuant to compliance with the requirements of 6 NYCRR Subpart 201-5.4, and/or the emission capping requirements of 6 NYCRR Subpart 201-7, the Department will make such records available to the public upon request in accordance

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with 6 NYCRR Part 616 - Public Access to Records.
Facility owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department.

Item C: **General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5**

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

The owner or operator of the permitted facility must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility regulated by this Subpart, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations or law.

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.

Condition 11: Contaminant List
Effective for entire length of Permit

Applicable State Requirement: ECL 19-0301

Item 11.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit (emission limits, control requirements or compliance monitoring conditions).

CAS No: 000067-56-1
Name: METHYL ALCOHOL

CAS No: 0NY075-00-0
Name: PARTICULATES

CAS No: 0NY100-00-0
Name: TOTAL HAP

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CAS No: 0NY998-00-0

Name: VOC

Condition 12: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit**Applicable State Requirement: 6 NYCRR 201-1.4****Item 12.1:**

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 13: Emission Unit Definition
Effective for entire length of Permit

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Applicable State Requirement:6 NYCRR Subpart 201-5

Item 13.1:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-CRUSH

Emission Unit Description:

This emission unit consists of various primary crushing, screening and magnetic separation operations that separate garnet from the wollastonite ore. The wollastonite ore is dried in a propane fired dryer.

Building(s): PLANT1
PLANT2

Item 13.2:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-GRIND

Emission Unit Description:

This emission unit consists of various equipment, and their associated dust collectors, which further grinds the separated wollastonite mineral from the primary crushing/magnetic separation operations and pneumatically separates the Wollastonite material into specified particle sizes. It also includes various storage and packaging operations associated with the manufacture of Wollastonite products.

Building(s): PLANT1
PLANT2

Item 13.3:

The facility is authorized to perform regulated processes under this permit for:

Emission Unit: 1-MIXER

Emission Unit Description:

This emission unit consists of process mixers, storage bins, and their respective add-on control devices, which mix the wollastonite with silane material to manufacture various products. The mixers vent through individual filter dust collectors. It also includes 2 pilot operations and in-house vacuum cleaning systems.

Building(s): PLANT1
PLANT2

**Condition 14: Renewal deadlines for state facility permits
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 201-5.2 (c)

Item 14.1:

The owner or operator of a facility having an issued state facility permit shall submit a complete

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application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Condition 15: CLCPA Applicability
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 15.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 16: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 201-5.3 (c)

Item 16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any reports or submissions required by this permit shall be submitted to the Regional Air Pollution Control Engineer (RAPCE) at the following address:

Division of Air Resources
 NYS Dept. of Environmental Conservation
 Region 5
 232 Golf Course Rd.
 Warrensburg, NY 12885

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 17: Air pollution prohibited
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 211.1

Item 17.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor,

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pollen, toxic or deleterious emission, either alone or in combination with others.

****** Emission Unit Level ******

**Condition 18: Emission Point Definition By Emission Unit
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR Subpart 201-5

Item 18.1:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-CRUSH

Emission Point: 00001
 Height (ft.): 40 Diameter (in.): 28
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Emission Point: 00003
 Height (ft.): 66 Length (in.): 36 Width (in.): 36
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Emission Point: 00006
 Height (ft.): 65 Diameter (in.): 22
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Emission Point: 00017
 Height (ft.): 2 Length (in.): 36 Width (in.): 24
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Emission Point: 00049
 Height (ft.): 65 Diameter (in.): 24
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Item 18.2:

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: 1-GRIND

Emission Point: 00004
 Height (ft.): 65 Diameter (in.): 22
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Emission Point: 00007
 Height (ft.): 65 Diameter (in.): 14
 NYTMN (km.): 4913.123 NYTME (km.): 627.13 Building: PLANT1

Emission Point: 00008

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| | | |
|-----------------------|---------------------|------------------|
| Height (ft.): 65 | Diameter (in.): 14 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00009 | | |
| Height (ft.): 65 | Diameter (in.): 22 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00011 | | |
| Height (ft.): 30 | Diameter (in.): 12 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00012 | | |
| Height (ft.): 30 | Diameter (in.): 12 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00013 | | |
| Height (ft.): 30 | Diameter (in.): 12 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00014 | | |
| Height (ft.): 28 | Length (in.): 12 | Width (in.): 9 |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00029 | | |
| Height (ft.): 110 | Diameter (in.): 6 | |
| NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00044 | | |
| Height (ft.): 99 | Diameter (in.): 12 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT2 |
| Emission Point: 00050 | | |
| Height (ft.): 65 | Diameter (in.): 18 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00051 | | |
| Height (ft.): 65 | Diameter (in.): 30 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00052 | | |
| Height (ft.): 25 | Diameter (in.): 22 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00053 | | |
| Height (ft.): 65 | Diameter (in.): 19 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00055 | | |
| Height (ft.): 45 | Diameter (in.): 10 | |
| NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT2 |
| Emission Point: 00057 | | |

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| | | |
|---|---|-------------------------------------|
| Height (ft.): 65 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 12 Building: PLANT1 |
| Emission Point: 00058 | | |
| Height (ft.): 65 NYTMN (km.): 4913.123 | Length (in.): 7 NYTME (km.): 627.13 | Width (in.): 7 Building: PLANT1 |
| Emission Point: 00059 | | |
| Height (ft.): 65 NYTMN (km.): 4913.123 | Length (in.): 4 NYTME (km.): 627.13 | Width (in.): 4 Building: PLANT1 |
| Emission Point: 00060 | | |
| Height (ft.): 78 NYTMN (km.): 4913.123 | Diameter (in.): 4 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00061 | | |
| Height (ft.): 84 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 12 Building: PLANT1 |
| Emission Point: 00062 | | |
| Height (ft.): 84 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 12 Building: PLANT1 |
| Emission Point: 00063 | | |
| Height (ft.): 79 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 12 Building: PLANT1 |
| Emission Point: 00064 | | |
| Height (ft.): 76 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 12 Building: PLANT1 |
| Emission Point: 00065 | | |
| Height (ft.): 46 NYTMN (km.): 4913.123 | Diameter (in.): 48 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00066 | | |
| Height (ft.): 58 NYTMN (km.): 4913.123 | Diameter (in.): 22 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00067 | | |
| Height (ft.): 64 NYTMN (km.): 4913.123 | Diameter (in.): 49 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00068 | | |
| Height (ft.): 64 NYTMN (km.): 4913.123 | Diameter (in.): 49 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00069 | | |
| Height (ft.): 64 NYTMN (km.): 4913.123 | Diameter (in.): 49 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00070 | | |

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| | | |
|--|---|------------------------------------|
| Height (ft.): 39 NYTMN (km.): 4913.123 | Diameter (in.): 37 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00071 | | |
| Height (ft.): 15 NYTMN (km.): 4913.123 | Diameter (in.): 37 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00072 | | |
| Height (ft.): 97 NYTMN (km.): 4913.123 | Diameter (in.): 20 NYTME (km.): 627.13 | Building: PLANT2 |
| Emission Point: 00073 | | |
| Height (ft.): 101 NYTMN (km.): 4913.123 | Diameter (in.): 20 NYTME (km.): 627.13 | Building: PLANT2 |
| Emission Point: 00074 | | |
| Height (ft.): 101 NYTMN (km.): 4913.123 | Diameter (in.): 20 NYTME (km.): 627.13 | Building: PLANT2 |
| Emission Point: 00075 | | |
| Height (ft.): 128 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 9 Building: PLANT2 |
| Emission Point: 00076 | | |
| Height (ft.): 45 NYTMN (km.): 4913.123 | Diameter (in.): 32 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00077 | | |
| Height (ft.): 41 NYTMN (km.): 4913.123 | Length (in.): 12 NYTME (km.): 627.13 | Width (in.): 9 Building: PLANT1 |
| Emission Point: 00099 | | |
| Height (ft.): 10 NYTMN (km.): 4913.123 | Diameter (in.): 6 NYTME (km.): 627.13 | Building: PLANT1 |

Item 18.3:

The following emission points are included in this permit for the cited Emission Unit:

| | | |
|---|---|------------------|
| Emission Unit: 1-MIXER | | |
| Emission Point: 00010 | | |
| Height (ft.): 26 NYTMN (km.): 4913.123 | Diameter (in.): 6 NYTME (km.): 627.13 | Building: PLANT1 |
| Emission Point: 00018 | | |
| Height (ft.): 45 NYTMN (km.): 4913.12 | Diameter (in.): 12 NYTME (km.): 627.32 | Building: PLANT2 |
| Emission Point: 00019 | | |
| Height (ft.): 45 NYTMN (km.): 4913.12 | Diameter (in.): 12 NYTME (km.): 627.32 | Building: PLANT2 |

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| | | | |
|-----------------------|-----------------------|---------------------|------------------|
| Emission Point: 00021 | Height (ft.): 45 | Diameter (in.): 12 | |
| | NYTMN (km.): 4913.12 | NYTME (km.): 627.32 | Building: PLANT2 |
| Emission Point: 00022 | Height (ft.): 45 | Diameter (in.): 6 | |
| | NYTMN (km.): 4913.12 | NYTME (km.): 627.32 | Building: PLANT2 |
| Emission Point: 00023 | Height (ft.): 110 | Diameter (in.): 8 | |
| | NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00037 | Height (ft.): 110 | Diameter (in.): 12 | |
| | NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00038 | Height (ft.): 110 | Diameter (in.): 12 | |
| | NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00039 | Height (ft.): 110 | Diameter (in.): 12 | |
| | NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00040 | Height (ft.): 110 | Diameter (in.): 12 | |
| | NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00041 | Height (ft.): 110 | Diameter (in.): 12 | |
| | NYTMN (km.): 4913.14 | NYTME (km.): 627.34 | Building: PLANT2 |
| Emission Point: 00048 | Height (ft.): 110 | Length (in.): 31 | Width (in.): 22 |
| | NYTMN (km.): 4913.123 | NYTME (km.): 627.13 | Building: PLANT2 |

**Condition 19: Process Definition By Emission Unit
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 19.1:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CRUSH
 Process: 100 Source Classification Code: 3-05-040-30
 Process Description:
 This process consists of crushing and screening of wollastonite ore to remove garnet impurities. Fabric filters are used to control emissions. The crushing/screening operations are exhausted through the following emission points: EP001 - primary

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crushing/screening/bucket elevators; EP017 - primary and secondary crushing.

Emission Source/Control: DC001 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC101 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00001 - Process

Emission Source/Control: 00017 - Process

Emission Source/Control: BE001 - Process

Emission Source/Control: S0001 - Process

Item 19.2:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CRUSH

Process: 200

Source Classification Code: 3-05-040-34

Process Description:

This process consists of vibrating conveyors and screen sizing of particles for more efficient magnetic separation of impurities from the crushed wollastonite ore. A fabric filter is used for emissions control. The process is exhausted through the following emission points: EP003 - beneficiation; EP006 - beneficiation dust collection.

Emission Source/Control: DC002 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC003 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC009 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00003 - Process

Emission Source/Control: 00006 - Process

Emission Source/Control: VC001 - Process

Item 19.3:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-CRUSH

Process: 600

Source Classification Code: 3-05-040-33

Process Description:

This process consists of an LP fired fluid bed dryer used

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to air-dry wollastonite ore. The kiln/dryer is vented to a fabric filter. The kiln/dryer is exhausted through the following emission point: EP049 - fluid bed dryer.

Emission Source/Control: CY102 - Control
Control Type: CENTRIFUGAL

Emission Source/Control: DC102 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00049 - Process

Item 19.4:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GRIND

Process: 300

Source Classification Code: 3-05-040-99

Process Description:

This process consists of various milling and grinding operations, which further process the crushed and dried wollastonite. Fabric filters are used to control emissions. The fine grinding operations are exhausted through the following emission points: EP004 - pebble mill #2; EP011 - G40 circuit; EP053 - pebble mill #1; EP007 - DC006; EP012 - DC011; EP073 - jet mill north; EP013 - DC012; EP074 - jet mill south; EP009 - pebble mill #3; EP 013 - 6 & 7F-1 and BIN PKG 021.

Emission Source/Control: DC006 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC010 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC011 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC012 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC013 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC014 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC015 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC019 - Control
Control Type: FABRIC FILTER

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Emission Source/Control: DC020 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC021 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC204 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC150 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC151 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC263 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC273 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00004 - Process

Emission Source/Control: 00007 - Process

Emission Source/Control: 00009 - Process

Emission Source/Control: 00011 - Process

Emission Source/Control: 00012 - Process

Emission Source/Control: 00013 - Process

Emission Source/Control: 00014 - Process

Emission Source/Control: 00053 - Process

Emission Source/Control: 00073 - Process

Emission Source/Control: 00074 - Process

Emission Source/Control: VC002 - Process

Item 19.5:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GRIND

Process: 400

Source Classification Code: 3-05-040-99

Process Description:

This process consists of various product receivers/collectors (storage bins/silos). Fabric filters are used to control emissions. The storage bins are

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exhausted through the following emission points: EP029 - raw product storage bin 220a and 220b, EP058 - nyad 325 storage bin 018, EP063 - packaging bin 007, EP044 - holding bins/packers, EP059 - nyad 400 storage bin 019, EP064 - packaging bin 008, EP051 - packing line and offline, EP060 - nyad 1250 storage bin 020, EP052 - metal silo, EP061 - packaging bin 003, EP076 - acm 300 mill, EP057 - acm 300 feed tank, EP062 - packaging bin 004, EP077- acm 300/95 ton bin, EP099 - rail loadout tank.

Emission Source/Control: BV002 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV003 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV004 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV006 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV007 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV101 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV102 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV105 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV106 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV116 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV141 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV143 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV144 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC018 - Control
Control Type: FABRIC FILTER

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Emission Source/Control: DC022 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC264 - Control
Control Type: FABRIC FILTER

Emission Source/Control: P221A - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC142 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC211 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC221 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00029 - Process

Emission Source/Control: 00044 - Process

Emission Source/Control: 00051 - Process

Emission Source/Control: 00052 - Process

Emission Source/Control: 00057 - Process

Emission Source/Control: 00058 - Process

Emission Source/Control: 00059 - Process

Emission Source/Control: 00060 - Process

Emission Source/Control: 00061 - Process

Emission Source/Control: 00062 - Process

Emission Source/Control: 00063 - Process

Emission Source/Control: 00064 - Process

Emission Source/Control: 00076 - Process

Emission Source/Control: 00077 - Process

Emission Source/Control: 00099 - Process

Item 19.6:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GRIND

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Process: 800 Source Classification Code: 3-05-101-98

Process Description:

This process consists of classifiers that pneumatically separate the Wollastonite material into specified particle sizes. Fabric filters are used to control emissions. The classifiers are exhausted to the following emission points: EP050 - classifier 103, EP055 - plant 2 classifier circuit - line 3, EP072 - air classifier circuit - RRIMGLOS.

Emission Source/Control: CY261 - Control
Control Type: CENTRIFUGAL

Emission Source/Control: CY262 - Control
Control Type: CENTRIFUGAL

Emission Source/Control: P231A - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC110 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC261 - Control
Control Type: FABRIC FILTER

Emission Source/Control: PC271 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00050 - Process

Emission Source/Control: 00055 - Process

Emission Source/Control: 00072 - Process

Item 19.7:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-GRIND
Process: 900 Source Classification Code: 3-05-999-99

Process Description:

This process consists of general room exhausts. Emissions are exhausted directly to atmosphere.

Emission Source/Control: 00065 - Process

Emission Source/Control: 00066 - Process

Emission Source/Control: 00067 - Process

Emission Source/Control: 00068 - Process

Emission Source/Control: 00069 - Process

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Emission Source/Control: 00070 - Process

Emission Source/Control: 00071 - Process

Item 19.8:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-MIXER

Process: 010

Source Classification Code: 3-05-040-21

Process Description:

This process consists of housecleaning vacuum systems. Fabric filters are used to control emissions. The vacuum systems are exhausted to the following emission points: EP010 - plant 1 Spencer vacuum system, EP022 - plant 2 pilot vacuum system, EP023 - plant 2 Spencer vacuum system.

Emission Source/Control: DC081 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DC200 - Control

Control Type: FABRIC FILTER

Emission Source/Control: VACQA - Control

Control Type: FABRIC FILTER

Emission Source/Control: VC080 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00010 - Process

Emission Source/Control: 00022 - Process

Emission Source/Control: 00023 - Process

Item 19.9:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-MIXER

Process: 501

Source Classification Code: 3-08-009-01

Process Description:

This process consists of process heating mixers and their respective add-on control devices, which mix the wollastonite with coating solutions to manufacture various products. This process is exhausted through a emission point EP048.

Emission Source/Control: DC213 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DC223 - Control

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Control Type: FABRIC FILTER

Emission Source/Control: DC233 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC243 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00048 - Process

Item 19.10:

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: 1-MIXER

Process: 502

Source Classification Code: 3-05-102-98

Process Description:

Process consists of final product storage bins and packers. Emissions are controlled by a common dust collector for each process line. The treatment process operations are exhausted through the following emission points: EP037 - Line 1 storage and package; EP038 - Line 2 storage and package; EP039 - Line 3 storage and package; EP040 - Line 4 storage and package; EP041 - Line 5 storage and package.

Emission Source/Control: BV212 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV222 - Control
Control Type: FABRIC FILTER

Emission Source/Control: BV232 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC241 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DC251 - Control
Control Type: FABRIC FILTER

Emission Source/Control: 00037 - Process

Emission Source/Control: 00038 - Process

Emission Source/Control: 00039 - Process

Emission Source/Control: 00040 - Process

Emission Source/Control: 00041 - Process

Item 19.11:

This permit authorizes the following regulated processes for the cited Emission Unit:

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Emission Unit: 1-MIXER

Process: 700

Source Classification Code: 3-05-999-99

Process Description:

This process, located in Plant 2, consists of pilot plant test operations for new wollastonite product lines. The pilot plant operations are exhausted through the following emission points: EP018 - pilot plant test room no. 1; EP019 - pilot plant test room no. 1; EP021 - pilot plant test room no. 5.

Emission Source/Control: DC201 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DC202 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DC203 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 00018 - Process

Emission Source/Control: 00019 - Process

Emission Source/Control: 00021 - Process

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