



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 4-0122-00004/00039
Mod 0 Effective Date: 10/03/2016 Expiration Date: 10/02/2021
Mod 1 Effective Date: 06/23/2017 Expiration Date: 10/02/2021

Permit Issued To: OWENS CORNING INSULATING SYSTEMS LLC
1 OWENS CORNING PKWY
TOLEDO, OH 43659

Facility: OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH
1277 FEURA BUSH RD
FEURA BUSH, NY 12067

Contact: DAVID A KRENITSKY
OWENS-CORNING DELMAR PLANT
1277 FEURA BUSH RD
FEURA BUSH, NY 12067
(518) 475-3673

Description:
The Owens Corning Insulating Systems, LLC facility in Feura Bush, New York (OCIS Delmar Plant) manufactures wool fiberglass insulation products through the operation of two glass furnaces and associated production lines (DM1 and DM2) along with air pollution control equipment. The facility currently operates under a Title V permit pursuant to Article 19 (Air Pollution Control) of the New York State Environmental Conservation Law and Title V of the federal Clean Air Act.

Minor modification to allow the facility to operate the exhaust fan for the DM-2 mixing chamber at higher speed. The facility performed initial testing at the requested fan speed and determined that there was an increase in potential PM/PM-10/PM-2.5 emissions. However, the increases were less than the applicability thresholds for regulation under PSD.

New York State Department of Environmental Conservation
Facility DEC ID: 4012200004



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: NANCY M BAKER
 NYSDEC - REGION 4
 1130 N WESTCOTT RD
 SCHENECTADY, NY 12306-2014

Authorized Signature: _____ Date: ___ / ___ / _____



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.



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

- Facility Inspection by the Department
- Relationship of this Permit to Other Department Orders and Determinations
 - Applications for permit renewals, modifications and transfers
 - Applications for permit renewals, modifications and transfers
 - Permit modifications, suspensions or revocations by the Department

Facility Level

- Submission of application for permit modification or renewal-REGION 4 HEADQUARTERS



DEC GENERAL CONDITIONS

****** General Provisions ******

For the purpose of your Title V permit, the following section contains state-only enforceable terms and conditions.

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.

Condition 4: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 4.1:

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

Item 4.2:

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.

Condition 5: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 5.1:

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 6: Submission of application for permit modification or renewal-REGION 4 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 6.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 4 Headquarters
Division of Environmental Permits
1130 North Westcott Rd.
Schenectady, NY 12306-2014
(518) 357-2069

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

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1 OWENS CORNING PKWY
TOLEDO, OH 43659

Facility: OWENS-CORNING INSULATING SYSTEMS- FEURA BUSH
1277 FEURA BUSH RD
FEURA BUSH, NY 12067

Authorized Activity By Standard Industrial Classification Code:
3296 - MINERAL WOOL

Mod 0 Permit Effective Date: 10/03/2016

Permit Expiration Date: 10/02/2021

Mod 1 Permit Effective Date: 06/23/2017

Permit Expiration Date: 10/02/2021



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR 201-6.4 (g): Non Applicable requirements
- 24 6 NYCRR 201-6.5: Compliance Certification
- *25 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *26 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *27 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *28 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 29 6 NYCRR 202-1.2: Notification
- 30 6 NYCRR 202-1.3: Acceptable procedures - Stack test report submittal
- 31 6 NYCRR 211.1: Air pollution prohibited
- 32 6 NYCRR Part 212: Compliance Certification
- 33 6 NYCRR 212.4 (a): Compliance Certification
- 34 6 NYCRR 212.6 (a): Compliance Certification
- 35 6 NYCRR 227-2.4 (d): Compliance Certification
- 36 6 NYCRR 228-1.3 (d): Compliance Certification
- 37 6 NYCRR 228-1.4 (d) (3): Compliance Certification
- 38 6 NYCRR 234.3 (a) (1) (i): Compliance Certification
- 39 6 NYCRR 234.5: Compliance Certification
- 40 6 NYCRR 234.6: Compliance Certification
- 41 6 NYCRR 234.7: Compliance Certification
- 42 6 NYCRR 234.8: Compliance Certification
- 43 40CFR 60.110b(b), NSPS Subpart Kb: Compliance Certification

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- 44 40CFR 63.3370(b), Subpart JJJJ: Compliance Certification
- 45 40 CFR Part 64: Compliance Certification
- 46 40 CFR Part 64: Compliance Certification
- 47 40 CFR 64.8: Compliance Certification
- 48 40 CFR 64.8: Compliance Certification
- 49 40 CFR 64.8: Compliance Certification

Emission Unit Level

- 50 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 51 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 52 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions
- 53 6 NYCRR Subpart 201-7: Process Permissible Emissions

EU=U-00001

- 54 40CFR 52.21, Subpart A: Compliance Certification

EU=U-00002

- *55 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *56 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *57 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 58 40 CFR Part 64: Compliance Certification
- 59 40 CFR Part 64: Compliance Certification

EU=U-00003

- *60 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 61 40 CFR Part 64: Compliance Certification
- 62 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ1,ES=FZ1SS

- 63 40 CFR Part 64: Compliance Certification
- 64 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ1,ES=FZ2SS

- 65 40 CFR Part 64: Compliance Certification
- 66 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ1,ES=FZ5SS

- 67 40 CFR Part 64: Compliance Certification
- 68 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ1,ES=FZ6SS

- 69 40 CFR Part 64: Compliance Certification
- 70 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ2,ES=FZ3SS

- 71 40 CFR Part 64: Compliance Certification
- 72 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ2,ES=FZ4SS

- 73 40 CFR Part 64: Compliance Certification
- 74 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ2,ES=FZEP1

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- 75 40 CFR Part 64: Compliance Certification
- 76 40 CFR Part 64: Compliance Certification

EU=U-00003,Proc=FZ2,ES=FZEP2

- 77 40 CFR Part 64: Compliance Certification
- 78 40 CFR Part 64: Compliance Certification
- 79 6 NYCRR 228-1.3 (b) (1): Compliance Certification

EU=U-00006

- 80 6 NYCRR 229.3 (e) (2) (iv): VOL storage tanks from 10000 - 20000 gallons
- 81 6 NYCRR 229.3 (e) (2) (v): VOL storage tanks less than 10000 gallons

EU=U-00008

- *82 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 83 6 NYCRR 231-11.2 (c): Compliance Certification

EU=U-00009

- 84 40CFR 52.21, Subpart A: Compliance Certification

EU=U-00010

- 85 40CFR 52.21, Subpart A: Compliance Certification

EU=U-00011

- 86 40CFR 52.21, Subpart A: Compliance Certification

EU=U-00012

- *87 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *88 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *89 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 90 40 CFR Part 64: Compliance Certification
- 91 40 CFR Part 64: Compliance Certification

EU=U-00013,EP=00017

- 92 6 NYCRR 212.4 (c): Compliance Certification

EU=U-00013,EP=00017,Proc=FC2,ES=DM2DB

- 93 40 CFR Part 64: Compliance Certification

EU=U-00017

- 94 40CFR 52.21, Subpart A: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 95 ECL 19-0301: Contaminant List
- 96 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 97 6 NYCRR 211.2: Visible Emissions Limited
- 98 6 NYCRR 220-2.4 (a): Compliance Demonstration
- 99 6 NYCRR 220-2.4 (c): Compliance Demonstration
- 100 6 NYCRR 220-2.4 (d): Compliance Demonstration
- 101 6 NYCRR Part 249: BART capping equation - NOx
- 102 6 NYCRR Part 249: BART capping equation - PM-10

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- 103 6 NYCRR Part 249: BART capping equation - SO₂
- 104 6 NYCRR Part 249: Compliance Demonstration
- 105 6 NYCRR Part 249: Compliance Demonstration
- 106 6 NYCRR Part 249: Compliance Demonstration

Emission Unit Level

EU=U-00002,Proc=OX1

- 107 6 NYCRR 220-2.3 (a): Compliance Demonstration

EU=U-00005,Proc=AA1

- 108 6 NYCRR 211.2: Compliance Demonstration

EU=U-00010

- 109 6 NYCRR 211.2: Compliance Demonstration

EU=U-00012,Proc=OX2

- 110 6 NYCRR 220-2.3 (a): Compliance Demonstration

EU=U-00015,Proc=AA2

- 111 6 NYCRR 211.2: Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

The items listed below are not subject to the annual compliance certification requirements under Title V. Permittees may also have other obligations under regulations of general applicability.

Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)

The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and



reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item F: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.4 (a) (5)

It shall not be a defense for a permittee in an enforcement action to claim that a cessation or reduction in the permitted activity would have been necessary in order to maintain compliance with the conditions of this permit.

Item G: Property Rights - 6 NYCRR 201-6.4 (a) (6)

This permit does not convey any property rights of any sort or any exclusive privilege.

Item H: Severability - 6 NYCRR 201-6.4 (a) (9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item I: Permit Shield - 6 NYCRR 201-6.4 (g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;

ii. The liability of a permittee of the Title V



facility for any violation of applicable requirements prior to or at the time of permit issuance;

iii. The applicable requirements of Title IV of the Act;

iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item J: Reopening for Cause - 6 NYCRR 201-6.4 (i)

This Title V permit shall be reopened and revised under any of the following circumstances:

i. When additional applicable requirements under the act become applicable to a title V facility with a remaining permit term of three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of therequirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the department pursuant to the provisions of section 201- 6.6 of this Subpart.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit



is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

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)

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.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS AT ALL TIMES**

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements at all times.

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

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

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contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 2: Fees
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (7)

Item 2.1:

The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (c)

Item 3.1:

The following information must be included in any required compliance monitoring records and reports:

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii)The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

Any deviation from permit requirements must be clearly identified in all records and reports. Reports must be certified by a responsible official, consistent with Section 201-6.2 of Part 201.

Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)

Item 4.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all



reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements,



the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual



report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 201-6.4 (e)

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Requirements for compliance certifications with terms and conditions contained in this facility permit include the following:

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as



specified in any special permit terms or conditions;
and
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.

iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the facility owner or operator elects to send physical copies instead, two copies shall be sent to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office) and one copy shall be sent to the Administrator (or his or her representative). The mailing addresses for the above referenced persons are:

Chief – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 4 Headquarters
1130 North Westcott Road
Schenectady, NY 12306-2014

The address for the BQA is as follows:

NYSDEC

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Bureau of Quality Assurance
625 Broadway
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar year. Statements are to be mailed to: New York State Department of Environmental Conservation, Division of Air Resources, Bureau of Air Quality Planning, 625 Broadway, Albany NY 12233-3251

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due by April 15th for previous calendar year

Condition 8: Recordkeeping requirements
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 10/03/2016 and 10/02/2021



Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.
- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS



SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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, required to operate such device effectively.

Condition 11: Recycling and Salvage
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-3.2 (a)

Item 13.1:

The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.



Condition 14: Trivial Sources - Proof of Eligibility
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-3.3 (a)

Item 14.1:

The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

Condition 15: Requirement to Provide Information
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)

Item 16.1:

The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

(i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;

(ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;

(iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.



Condition 17: Off Permit Changes
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)

Item 17.1:

No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

(ii) The permit shield described in section 6 NYCRR 201-6.4 shall not apply to any change made pursuant to this paragraph.

Condition 18: Required Emissions Tests
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

Condition 19: Accidental release provisions.
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:

a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;



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b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:

1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,

2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

Risk Management Plan Reporting Center
C/O CSC
8400 Corporate Dr
Carrollton, Md. 20785

Condition 20: Recycling and Emissions Reduction
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

The permittee shall comply with all applicable provisions of 40 CFR Part 82.

The following conditions are subject to annual compliance certification requirements for Title V permits only.

Condition 21: Emission Unit Definition
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 21.1(From Mod 1):

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

Emission Unit: U-00013

Emission Unit Description:

This unit represents the DM-2 mixing chamber, which contains emission point 00017, and is located in Building 1.

Building(s): 1

Item 21.2(From Mod 0):

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

Emission Unit: U-00001

Emission Unit Description:

This emission unit represents the DM-1 mixed batch bin, contains emission point 00002 and is located in Building 1.



Building(s): 1

Item 21.3(From Mod 0):

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

Emission Unit: U-00002

Emission Unit Description:

This unit represents the DM-1 oxy-fuel melter, contains emission points 00100 and 00101, and is located in Building 1. Emission point 00100 feeds into the new, common stack, emission point 00300. Emission point 00101 is used strictly for DEP emergency shutdown, maintenance, or malfunction. When a bypass situation occurs it is best practice to keep the furnace in a condition of thermal stability by maintaining its pull rate. Shutting it off or even restricting the molten glass output for this type of furnace as a perceived means of reducing emissions can thermally shock the furnace refractory resulting in failure or reduced life of the capital asset. In addition to this, restricting or stopping the glass feed during a bypass would reduce the surface area and thickness of the insulating crust of the unmelted batch and potentially result in increased emissions.

Building(s): 1

Item 21.4(From Mod 0):

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

Emission Unit: U-00003

Emission Unit Description:

This unit represents the DM-1 mixing chamber, forming zones, curing oven, cooling section, smoke stripping section and the mist control system for the forming basement, which contains emission points 00005, 00006, 00022, 00102, 00103, 00104, and 00105, located in Building 1.

Building(s): 1

Item 21.5(From Mod 0):

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

Emission Unit: U-00005

Emission Unit Description:

This unit represents the DM-1 asphalt applicator and flexographic printing, which contains emission point 00013, and is located in Building 1.

Building(s): 1

Item 21.6(From Mod 0):

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

Emission Unit: U-00006

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Emission Unit Description:

This unit represents facility storage tanks including asphalt and process vegetable oil. This unit contains emission points 00009, 00012, and 00020. Emission points 00009, 00011, 00012, and 00020 are located in Building 2. As part of the conversion to a starch-based binder system, there are two maltodextrin tanks (at 15,227 gallons each), and the existing 13,900 gallon tank was modified to store sodium hydroxide. In addition, there are three storage tanks (a sodium hypophosphite tank at 6,189 gallons and two citric acid tanks at 8,225 gallons each) that are below the exemption levels in 6 NYCRR 201-3.2(c)(25) and, therefore, are not required to be individually listed elsewhere in this permit.

Building(s): 1

Item 21.7(From Mod 0):

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

Emission Unit: U-00007

Emission Unit Description:

This unit represents the binder room, which contains emission point 00027, and is located in Building 1. Four storage tanks (one binder mix tank at 917 gallons and three binder circulation tanks at 1,202 gallons each) were added as part of the conversion to a starch-based binder system. All of these tanks have capacities below the exemption levels noted in 6 NYCRR 201-3.2(c)(25) and, therefore, are not required to be individually listed elsewhere in this permit.

Building(s): 1

Item 21.8(From Mod 0):

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

Emission Unit: U-00008

Emission Unit Description:

This unit represents DM-1 bagging equipment, which contains emission points 00030 and 00031, and is located in Building 1.

Building(s): 1

Item 21.9(From Mod 0):

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

Emission Unit: U-00009

Emission Unit Description:

This unit represents the DM-1 conditioning and forehearth area which contains emission point 00035, and is located in Building 1.

Building(s): 1

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Item 21.10(From Mod 0):

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

Emission Unit: U-00010

Emission Unit Description:

This unit represents miscellaneous fugitive emission sources including: 2 ink jet printers, a wash water system, aggregate cullet storage pile, and unloading and mixing of glass batch material. The wash water system is located in Building 1, the aggregate cullet storage pile is located in Building 4, and the unloading and mixing of glass batch material is located in Building 3. Two storage tanks (a hood wall wash water recirculation tank at 2,000 gallons and a binder make-up water tank at 1,737 gallons) were added as part of the conversion to a starch-based binder system. These two tanks have capacities below the exemption levels noted in 6 NYCRR 201-3.2(c)(25) and, therefore, are not required to be individually listed elsewhere in this permit.

Building(s): 1
3
4

Item 21.11(From Mod 0):

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

Emission Unit: U-00011

Emission Unit Description:

This unit represents the DM-2 mixed batch bin, which contains emission point 00014, and is located in Building 1.

Building(s): 1

Item 21.12(From Mod 0):

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

Emission Unit: U-00012

Emission Unit Description:

This emission unit represents the DM-2 oxy fuel melter, contains emission points 00200, 000201 and is located in Building 1. Emission point 00200 feeds into the common stack, emission point 00300. Emission point 00201 is used strictly for DEP emergency shutdown, maintenance, or malfunction. When a bypass situation occurs it is best practice to keep the furnace in a condition of thermal stability by maintaining its pull rate. Shutting it off or even restricting the molten glass output for this type of furnace as a perceived means of reducing emissions can thermally shock the furnace refractory resulting in failure or reduced life of the capital asset. In addition to this, restricting or stopping the glass feed during a bypass would reduce the surface area and thickness of the

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insulating crust of the unmelted batch and potentially result in increased emissions.

Building(s): 1

Item 21.13(From Mod 0):

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

Emission Unit: U-00014

Emission Unit Description:

This unit represents the DM-2 cooling area, comprised of DM-2 smoke stripper and DM-2 cooling section. This unit contains emission points 00018 and 00021, and is located in Building 1.

Building(s): 1

Item 21.14(From Mod 0):

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

Emission Unit: U-00015

Emission Unit Description:

This unit represents the DM-2 asphalt applicator and flexographic printing, which contains emission point 00019, and is located in Building 1.

Building(s): 1

Item 21.15(From Mod 0):

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

Emission Unit: U-00016

Emission Unit Description:

This unit represents the DM-2 bagging equipment, which contains emission point 00032, and is located in Building 1.

Building(s): 1

Item 21.16(From Mod 0):

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

Emission Unit: U-00017

Emission Unit Description:

This unit represents the penclone collectors 1, 2, 3, and 4 which contains emission point 00028 and 00029, and is located in Building 1.

Building(s): 1

Item 21.17(From Mod 0):

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

Emission Unit: U-00018

Emission Unit Description:

This unit represents the DM-2 conditioning area, which contains emission point 00036, and is located in Building



1.

Building(s): 1

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (d) (4)

Item 22.1:

Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

(i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and

(ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 23: Non Applicable requirements
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.4 (g)

Item 23.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

40 CFR 60.680

Reason: Currently, both the DM-1 and DM-2 manufacturing lines are not subject to 40 CFR 60, Subpart PPP (40 CFR 60.680 or NSPS PPP) - Standard of Performance for Wool Fiberglass Insulation Manufacturing Plants. The binder change project to a starch-based binder did not trigger the applicability of NSPS PPP for either the DM-1 or DM-2 manufacturing lines. Applicability of NSPS PPP is for rotary spin wool fiberglass insulation manufacturing lines that commence construction, modification or reconstruction after February 7, 1984. 40 CFR 60.14 defines modification as any physical change or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies, where the emission rate is required to be expressed as kg/hour. In other words, the NSPS modification provisions apply an hourly emissions rate test to determine whether an emissions increase results from a physical or operational change. Pursuant to longstanding USEPA interpretations, the emission rate



before and after a physical or operational change is evaluated at each unit by comparing the hourly potential emissions under current maximum capacity to hourly emissions at maximum capacity after the change.

The binder change project did not increase the hourly bare glass production rate or emission rate of any pollutant from either of the affected manufacturing lines. Therefore, the non-applicability determination of NSPS PPP for both the DM-1 and DM-2 manufacturing lines remains in effect.

40 CFR 63.820

Reason: This standard covers wide web flexographic printing. Although the facility does use flexographic printing in emission unit U-00005, process FG1 and emission unit U-00015, process FG2, it does not qualify as wide web. In all cases, the printing face is less than 18 inches wide.

40 CFR Part 63, Subpart NNN

Reason: As part of its application submitted to the Department on December 7, 2009 for a permit modification to allow conversion from a binder system based on a phenol-formaldehyde resin to a binder system formulated around a starch-based resin at the Feura Bush facility, Owens Corning Insulating Systems, LLC (OCIS) presented supporting information (dated November 20, 2009 and March 9, 2010) requesting a determination regarding the applicability of the NESHAP for Wool Fiberglass Manufacturing (Subpart NNN) to operations at this facility following the binder conversion. The Department forwarded this request onto the United States Environmental Protection Agency (USEPA), which oversees the federal NESHAP program. In response, USEPA informed the Department on June 15, 2010 of its determination that, upon completion of the conversion to the starch-based binder system, the OCIS Feura Bush facility would no longer meet the definition of an affected facility in 40 CFR 63.1380 and, therefore, would no longer be subject to Subpart NNN. The conversion to the starch-based binder system at the facility was completed in February 2011 for the DM-1 production line and in September 2011 for the DM-2 production line. Therefore, because the facility no longer uses phenol-formaldehyde binders, it is no longer subject to the Subpart NNN requirements.

The NESHAP for Wool Fiberglass Manufacturing lists three affected sources subject to the standards of Subpart NNN: glass-melting furnaces located at a wool fiberglass manufacturing facility; rotary spin wool fiberglass manufacturing lines producing a bonded wool fiberglass



building insulation product; and flame attenuation wool fiberglass manufacturing lines producing a bonded heavy density product. Prior to the switch to a starch-based binder, the facility operated two glass-melting furnaces located at a wool fiberglass manufacturing facility and two rotary spin wool fiberglass manufacturing lines producing a bonded wool fiberglass building insulation product that were subject to Subpart NNN requirements. There is no flame attenuation wool fiberglass manufacturing line at the facility.

Consistent with other Subpart NNN determinations by USEPA for similar wool fiberglass manufacturing facilities elsewhere, the following is the rationale that was used for the Subpart NNN non-applicability determination relating to the starch-based binder conversion. With the switch to a starch-based binder system from a phenol-formaldehyde binder, the facility no longer produces a bonded product and, therefore, does not produce building insulation as defined per Subpart NNN. Because the facility no longer produces building insulation per Subpart NNN, it does not meet the definition of a rotary spin manufacturing line. If there is no rotary spin manufacturing line or flame attenuation manufacturing line located at the facility, then the facility does not meet the definition of a wool fiberglass manufacturing facility in Subpart NNN. Additionally, since the facility is no longer defined as a wool fiberglass manufacturing facility, as a result of the switch to a starch-based binder (i.e., non-phenol, non-formaldehyde), then the glass-melting furnaces located at the facility are no longer subject to Subpart NNN because these furnaces are no longer located at a wool fiberglass manufacturing facility.

Condition 24: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 201-6.5

Item 24.1:

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

Emission Unit: U-00003
Process: BP1

Emission Unit: U-00003
Process: CO1

Emission Unit: U-00003

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Process: CS1

Emission Unit: U-00003

Process: FZ1

Emission Unit: U-00003

Process: FZ2

Emission Unit: U-00003

Process: ME1

Emission Unit: U-00003

Process: SS1

Emission Unit: U-00013

Process: FC2

Emission Unit: U-00014

Process: CS2

Emission Unit: U-00014

Process: SC2

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall conduct VOC emission retesting/analysis on the forming, curing, and cooling sections (includes smoke strippers) of each manufacturing line (DM-1 and DM-2) in order to calculate associated emission factors in pounds of VOC per pound of binder solids applied. These emission factors will be used to demonstrate compliance with the VOC emission cap set forth elsewhere in this permit from the modification in the binder formulation. The Department will review the variability of the VOC emission rates compared to previous test results to determine if future testing shall be conducted on a periodic basis. An acceptable VOC testing protocol must be submitted to the department at least thirty (30) days prior to conducting such testing. Testing/analysis results must be reported to the department within sixty (60) days following the completion of the testing. The testing results must also be included in the semi-annual reporting and annual compliance certification required in this permit.

While submission of an acceptable testing protocol is required as explained above, the facility anticipates using the following method for the testing of VOC emissions from the new starch-based binder



formulation:

The method consists of a Method 5E (or equivalent) sampling train configured for total organic carbon (TOC) analysis of the back half, combined with a Method 25A (or equivalent) analyzer on a portion of the airstream exiting the Method 5E impinger train.

The 0.1 N NaOH impinger contents of the Method 5E train can be analyzed for TOC, following the protocol described in Method 5E. In addition, a portion of the impinger catch can be analyzed using methods such as Gas Chromatography with Flame Ionization Detection (GC-FID) where analytes are known. A portion of the 0.1 N NaOH impinger catch can also be extracted and analyzed by Gas Chromatography-Mass Spectrometry to permit identification of compounds, similar to EPA Method 8270, a water method for determining semi-volatiles. Finally, ion chromatography can be applied to the impinger catch to separate analytes such as formic acid and acetic acid. Other techniques are possible, depending upon the nature of the analytes. Polar and semi-volatile compounds will be collected by the 0.1 N NaOH impinger train. These analysis tools will establish a typical mass to carbon ratio. Once a typical mass to carbon ratio for the Method 5E catch is established, it will be used to apply to the Method 5E results when future VOC testing is required. Results will be stated as lb/hr VOC.

Non-polar compounds, such as light hydrocarbons will not be collected, and they will be measured by the Method 25A FID train. The Method 25A FID train will be calibrated as propane and the results specified as lb/hr VOC. Corrections for methane or ethane will be made before the results are specified.

Total VOC emissions will be the sum of the Method 5E results and the Method 25A results specified as lb/hr VOC.

The following calculation will be used for the scaling factor determination of the hourly VOC rate:

Given the following:

- Molecular weight of each known compound
 - Number of carbons in each known compound
 - Mass of each compound
- 1) Calculate the mass of carbon contributed by each compound
 - 2) Sum up the total mass of carbon
 - 3) Calculate the percentage (%) of total mass contributed by each compound



- 4) Calculate the carbon to mass ratio for each compound (scaling factor for that individual compound)
- 5) Calculate the contribution to the scaling factor of each compound by multiplying the individual mass to carbon ratio by its percentage (%) of the total mass
- 6) Sum up all the individual contributions to obtain the scaling factor for the mix

Reference Test Method: Method 5E and Method 25A (or approved equivalent)

Monitoring Frequency: Once every five years

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 25: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 25.1:

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 231-6

Item 25.2:

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

Item 25.3:

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 25.4:

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 25.5:

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.

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Item 25.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003
Process: BP1

Emission Unit: U-00003
Process: CO1

Emission Unit: U-00003
Process: CS1

Emission Unit: U-00003
Process: FZ1

Emission Unit: U-00003
Process: FZ2

Emission Unit: U-00003
Process: ME1

Emission Unit: U-00003
Process: SS1

Emission Unit: U-00006
Process: 212

Emission Unit: U-00006
Process: 229

Emission Unit: U-00006
Process: MSH

Emission Unit: U-00007
Process: BDR

Emission Unit: U-00010
Process: FES

Emission Unit: U-00013
Process: FC2

Emission Unit: U-00014
Process: CS2

Emission Unit: U-00014
Process: SC2

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

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Item 25.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The purpose of this cap is to limit the VOC emissions increase from all process sources affected by the starch-based binder change project to less than the 6 NYCRR Part 231 significant project threshold of 40 tons per year, thereby avoiding the lowest achievable emission rate and offset requirements of 6 NYCRR 231-6. Therefore, the increase in potential VOC emissions from the affected process sources associated with this project will be limited to no more than 39 tons per year. When added to the two-year average baseline emissions of 59.78 tpy (from the 2005-2006 facility emissions statements) for the affected process sources, the total VOC emissions from the affected process sources shall not exceed 98.78 tons per year, as a rolling 12-month total.

To demonstrate compliance with the rolling 12-month total VOC emissions limit of 98.78 tons per year the facility will record binder solids usage for each manufacturing line. The detailed description of the process performed by the facility to calculate manufacturing line specific emission factors is delineated in a July 2010 amendment to "Appendix F - VOC Documentation" of the facility application for a Title V permit modification addressing the starch-based binder change project which was submitted to the Department in December 2009. The VOC emissions will be calculated for each line by multiplying the binder usage by the VOC emission factor and then summing the emissions from both lines to get the total VOC emissions subject to the cap.

The VOC emission factors are:

DM-1: 10.070 lbs VOC/ton binder solids

DM-2: 24.062 lbs VOC/ton binder solids

Parameter Monitored: VOC

Upper Permit Limit: 98.78 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 26: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021



Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 26.1:

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 Part 249

Item 26.2:

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

Item 26.3:

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 26.4:

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 26.5:

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 26.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00012

Emission Unit: U-00013

Emission Unit: U-00014

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

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Item 26.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To avoid applicability of Part 249, Best Available Retrofit Technology (BART), the total annual SO₂ emissions from the BART-eligible sources EU2 (DM1 Oxy Fuel Furnace), EU3 (DM1 Forming/Curing/Cooling/Smoke Stripper), EU12 (DM2 Oxy Fuel Furnace), EU13 (DM2 Mixing Chamber), and EU14 (DM2 Cooling Area and Smoke Stripper) shall not exceed 249 tons per year (tpy) calculated as a rolling, 12-month summation of emissions, and calculated on a monthly basis using the procedure outlined in the special condition covering the BART capping equations for SO₂ located elsewhere in this permit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: GLASS

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 249 tons per year

Monitoring Frequency: WHEN THE SOURCE IS OPERATING

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

**Condition 27: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 27.1:

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 Part 249

Item 27.2:

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

Item 27.3:

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

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other state and federal air pollution control requirements, regulations or law.

Item 27.4:

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 27.5:

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 27.6:

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

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00012

Emission Unit: U-00013

Emission Unit: U-00014

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 27.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To avoid applicability of Part 249, Best Available Retrofit Technology (BART), the total annual PM-10 emissions from the BART-eligible sources EU2 (DM1 Oxy Fuel Furnace), EU3 (DM1 Forming/Curing/Cooling/Smoke Stripper), EU12 (DM2 Oxy Fuel Furnace), EU13 (DM2 Mixing Chamber), and EU14 (DM2 Cooling Area and Smoke Stripper) shall not exceed 249 tons per year (tpy) calculated as a rolling, 12-month summation of emissions, and calculated on a monthly basis using the procedure outlined in the special condition covering the BART capping equations for PM-10 located elsewhere in this permit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

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Process Material: GLASS
Parameter Monitored: PM-10
Upper Permit Limit: 249 tons per year
Monitoring Frequency: WHEN THE SOURCE IS OPERATING
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 28: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 28.1:

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 Part 249

Item 28.2:

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

Item 28.3:

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 28.4:

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 28.5:

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 28.6:

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

Emission Unit: U-00002

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Emission Unit: U-00003

Emission Unit: U-00012

Emission Unit: U-00013

Emission Unit: U-00014

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 28.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

To avoid applicability of Part 249, Best Available Retrofit Technology (BART), the total annual NO_x emissions from the BART-eligible sources EU2 (DM1 Oxy Fuel Furnace), EU3 (DM1 Forming/Curing/Cooling/Smoke Stripper), EU12 (DM2 Oxy Fuel Furnace), EU13 (DM2 Mixing Chamber), and EU14 (DM2 Cooling Area and Smoke Stripper) shall not exceed 249 tons per year (tpy) calculated as a rolling, 12-month summation of emissions, and calculated on a monthly basis using the procedure outlined in the special condition covering the BART capping equations for NO_x located elsewhere in this permit.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: GLASS

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 249 tons per year

Monitoring Frequency: WHEN THE SOURCE IS OPERATING

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 29: Notification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 29.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his

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representative, free access to observe stack testing being conducted by such person.

Condition 30: Acceptable procedures - Stack test report submittal
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 30.1:

Emission test reports must be submitted in triplicate to the commissioner within 60 days after the completion of the tests, unless additional time is requested in writing.

Condition 31: Air pollution prohibited
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 211.1

Item 31.1:

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

Condition 32: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Part 212

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000050-00-0	FORMALDEHYDE
CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007664-41-7	AMMONIA
CAS No: 0NY998-00-0	VOC

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

As of 11/30/00, the department has reviewed the following documents and find them to be acceptable:
RACT-VOC from mixing chambers and forming sections, 8/00 (reference part 212.10(c)(4)(i))
BACT-Ammonia from mixing chambers and forming sections, 8/00 (reference part 212.5(d))
BACT-Formaldehyde and VOC from mixing chambers and forming

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sections, 8/00 (reference 212.5(d))
BACT-CO from mixing chambers, 7/99 (reference
212.5(d))

Therefore the BACT analyses are approved. The RACT
analysis have been submitted to EPA as a SIP revision.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 33: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 33.1:

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

Emission Unit: U-00002

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as required under section 201.8 of Title 6, no
person shall cause or allow emissions that exceed the
applicable permissible emission rate as determined from
Table 2 of Part 212 for the environmental rating issued by
the Commissioner. (Table 4 for the glass production
furnaces is less stringent than the 40 CFR 52.21 furnace
particulate caps and therefore the caps govern. Table 4:
DM-1: 14.5 lb/hr; DM-2: 13.9 lb/hr. Caps: DM-1: ~ 3.5
lb/hr; DM-2: ~2.2 lb/hr.)

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 212.6 (a)

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Item 34.1:

The Compliance Certification activity will be performed for the Facility.

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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 a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct daily observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee 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.

The permittee 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 standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).



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Condition 35: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 227-2.4 (d)

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 228-1.3 (d)

Item 36.1:

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

Emission Unit: U-00005	Emission Point: 00013
Process: AA1	Emission Source: DM1AA
Emission Unit: U-00015	Emission Point: 00019
Process: AA2	Emission Source: DM2AA

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Within the work area(s) associated with a coating line, the owner or operator of a facility subject to this Subpart must:



- (a) use closed, non-leaking containers to store or dispose of cloth or other absorbent applicators impregnated with VOC solvents that are used for surface preparation, cleanup or coating removal;
- (b) store in closed, non-leaking containers spent or fresh VOC solvents to be used for surface preparation, cleanup or coating removal;
- (c) not use VOC solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize VOC evaporation;
- (d) not use open containers to store or dispense surface coatings and/or inks unless production, sampling, maintenance or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purpose of applying a coating material to a substrate. These devices may include, but are not limited to: spray guns, flow coaters, dip tanks, rollers, knife coaters, and extrusion coaters;
- (e) not use open containers to store or dispose of spent surface coatings, or spent VOC solvents;
- (f) minimize spills during the handling and transfer of coatings and VOC solvents; and
- (g) clean hand held spray guns by one of the following:
 - (1) an enclosed spray gun cleaning system that is kept closed when not in use;
 - (2) non-atomized discharge of VOC solvent into a paint waste container that is kept closed when not in use;
 - (3) disassembling and cleaning of the spray gun in a vat that is kept closed when not in use; or
 - (4) atomized spray into a paint waste container that is fitted with a device designed to capture atomized VOC solvent emissions.

Open containers, if found, shall be covered and such deviations shall be noted in a log maintained in the operating area. The log shall include the following information:

- date and time of observation
- description of observed deviation from this permit condition
- corrective measures taken, if necessary

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 228-1.4 (d) (3)

Item 37.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005
Process: AA1

Emission Point: 00013
Emission Source: DM1AA

Emission Unit: U-00015
Process: AA2

Emission Point: 00019
Emission Source: DM2AA

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility applying coatings to paper film and foil may not use coatings with VOC contents, as applied, which exceed the limits specified in table D-2 of Subpart 228-1. The units in table D-2 of Subpart 228-1 are in terms of weight of VOC per weight of coating applied.

(i) The VOC content limits in table D-2 of Subpart 228-1 can be met by averaging the VOC content of the materials used on a single surface coating line (i.e. daily with-in-line averaging).

(ii) Materials used to form unsupported substrates, such as calendaring of vinyl, brown film, cast film, extruded film and co-extruded film are not considered coating for the purpose of table D-2 of Subpart 228-1.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: COATING

Parameter Monitored: VOC CONTENT

Upper Permit Limit: 0.08 pounds of VOC per pound of coating

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)



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Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 234.3 (a) (1) (i)

Item 38.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005	Emission Point: 00013
Process: FG1	Emission Source: DM1FG
Emission Unit: U-00015	Emission Point: 00019
Process: FG2	Emission Source: DM2FG

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

A packaging rotogravure, publication rotogravure, or flexographic printing process that uses ink, coating or adhesive containing VOC shall not operate if it: is located in a severe ozone non-attainment area; has an annual potential to emit VOC of 25 tons per year or more; or is located in a facility that has an annual potential to emit VOC of 50 tons per year or more, unless the printing process uses an ink, coating or adhesive with a low VOC content equal to or less than 0.16 kilograms of VOC per kilogram of ink, coating or adhesive as applied (0.16 kg VOC/ kg material as applied).

VOC content limits can be met by averaging the VOC content of materials used on a single press (i.e., within a line).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: INKS, SOLVENTS AND ADHESIVES

Parameter Monitored: VOC

Upper Permit Limit: 0.16 kilograms VOC per kilogram as applied

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 234.5

Item 39.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A person shall not sell, specify, or require the application of a coating, ink or adhesive on a substrate if such activity is prohibited by any of the provisions of this Part. The prohibition of this section shall apply to all written or oral contracts under the terms of which a coating, ink or adhesive is to be applied to a substrate.

This prohibition shall not apply to the following:

(1) Ink, coating, or adhesive used in printing processes where control equipment has been installed to demonstrate compliance with this Part; or

(2) Ink, coating, or adhesive used in printing processes that have been granted variances for reasons of technological and economic feasibility per section 234.3(f) of this Part.

A person selling an ink, coating, or adhesive used in a printing process subject to this Part must, upon request, provide the buyer with certification of the VOC content of the coating, ink or adhesive supplied.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 234.6

Item 40.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

An owner or operator of a facility subject to this Part shall not:

(a) Use open containers to store or dispose of cloth or paper impregnated with VOC or solvents that are used for surface preparation, cleanup or the removal of ink, coating or adhesive;

(b) Use open containers to store or dispose of spent or fresh VOC or solvents used for surface preparation, cleanup or the removal of ink, coating or adhesive;

(c) Use open containers to store, dispose or dispense ink, coating or adhesive unless production, sampling, maintenance or inspection procedures require operational access. This provision does not apply to the actual device or equipment designed for the purposes of applying an ink, coating or adhesive to a substrate.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 41: Compliance Certification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 234.7

Item 41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005 Emission Point: 00013
Process: FG1 Emission Source: DM1FG

Emission Unit: U-00015 Emission Point: 00019

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Process: FG2

Emission Source: DM2FG

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Purchase, use, and production records of ink, coating, adhesive, VOCs, solvent, fountain solution and cleaning material must be maintained in a format acceptable to the Department, and upon request, submitted to the Department. Any other information required to determine compliance with this Part must be provided to the Department in an acceptable format. Records must be maintained at the facility for five years.

The results of an analysis or other procedure used to establish compliance with this Part must be provided to the Department. Department representatives shall be permitted, during reasonable business hours, to obtain ink, coating, adhesive, cleaning material and fountain solution samples to determine compliance with this Part.

The owner or operator of a graphic art facility which is not subject to the control requirements of this Part because its annual potential to emit VOC or its total actual VOC emissions, whichever applies is below the applicability criteria, must maintain records in a format acceptable to the Department that verify the facility's annual potential to emit VOC or its total actual VOC emissions. Upon request, these records must be submitted to the Department.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 42: Compliance Certification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 234.8

Item 42.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Unit: U-00005
Process: FG1

Emission Point: 00013
Emission Source: DM1FG

Emission Unit: U-00015
Process: FG2

Emission Point: 00019
Emission Source: DM2FG

Item 42.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

A person shall not cause or allow emissions having an average opacity of 10 percent or greater for any consecutive six minute period from any emission source subject to this Part into the outdoor atmosphere.

The permittee will conduct observations of visible emissions from all affected emission sources daily while the process is in operation. The permittee 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.

The permittee 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 standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the Method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up Method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 10 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 60.110b(b), NSPS Subpart Kb

Item 43.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00006	Emission Point: 00040
Process: MSH	Emission Source: MALT1
Emission Unit: U-00006	Emission Point: 00041
Process: MSH	Emission Source: MALT2
Emission Unit: U-00006	Emission Point: 00042
Process: MSH	Emission Source: NAOH1

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

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A record must be kept of the storage vessel dimensions and capacity. There are no other requirements for a tank of less than 20,000 gallon design capacity in 40 CFR 60 Kb. There are no reporting requirements.

The vessels have capacities as follows: 15,227 gallons (MALT1), 15,227 gallons (MALT2), and 13,900 gallons (NAOH1).

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 44: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 63.3370(b), Subpart JJJJ

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Unit: U-00005
Process: AA1

Emission Unit: U-00015
Process: AA2

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

A facility that chooses to comply with Subpart JJJJ by using coating materials that individually meet the emission standards in 40 CFR 63.3320(b)(2) must demonstrate that each coating material applied during the month at an existing affected source contains no more than 0.04 mass fraction of organic HAP on an as-purchased basis as determined in accordance with 40 CFR 63.3360(c). The facility is in compliance with the emission standards if each coating material satisfies the above criteria and is applied as-purchased. The facility must comply with the reporting requirements listed in 40 CFR 63.3400(c) and maintain records in accordance with 40 CFR 63.3410.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: COATING

Parameter Monitored: ORGANIC HAP CONTENT

Upper Permit Limit: 4 percent by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 45: Compliance Certification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 45.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Monitoring devices used to determine compliance shall be calibrated at the frequency below. Results of such calibrations shall be maintained on site for a minimum of five years and made available to the department upon request.

Monitoring Frequency: QUARTERLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 46: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 46.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Corrective action shall be initiated within 1 hour, when any 3-hour block average of a monitored electrostatic precipitator (ESP) parameter is outside the parametric range. Corrective action shall be completed in a timely manner according to the procedures in the operations, maintenance, and monitoring (OMM) plan.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR 64.8

Item 47.1:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



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

Emission Unit: U-00003 Process: FZ1	Emission Source: FZ1SS
Emission Unit: U-00003 Process: FZ1	Emission Source: FZ2SS
Emission Unit: U-00003 Process: FZ1	Emission Source: FZ5SS
Emission Unit: U-00003 Process: FZ1	Emission Source: FZ6SS
Emission Unit: U-00003 Process: FZ2	Emission Source: FZ3SS
Emission Unit: U-00003 Process: FZ2	Emission Source: FZ4SS
Emission Unit: U-00003 Process: FZ2	Emission Source: FZEP1
Emission Unit: U-00003 Process: FZ2	Emission Source: FZEP2
Regulated Contaminant(s): CAS No: 0NY075-00-0	PARTICULATES

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Corrective action shall be initiated in a timely manner when: 1) the average pressure drop or liquid flow rate for each DM1 forming wet scrubber is outside the limits as described elsewhere in the permit; or 2) the 3rd field secondary voltage or current for each DM1 forming wet ESP for any 3-hour block period is outside the limits as described elsewhere in the permit; or 3) the wash water solids content for the DM1 forming wet ESPs is outside the limit as described elsewhere in the permit.

The following are the process and emission source associations effected by this condition:

Process FZ1, Emission Source FZ1SS – Forming zone A

Process FZ1, Emission Source FZ2SS – Forming zone B

Process FZ1, Emission Source FZ5SS – Forming zone

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- E
Process FZ1, Emission Source FZ6SS – Forming zone
- F
Process FZ2, Emission Source FZ3SS – Forming zone
- C
Process FZ2, Emission Source FZ4SS – Forming zone D

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 48: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR 64.8

Item 48.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003 Process: FZ1	Emission Source: FZ1SS
Emission Unit: U-00003 Process: FZ1	Emission Source: FZ2SS
Emission Unit: U-00003 Process: FZ1	Emission Source: FZ5SS
Emission Unit: U-00003 Process: FZ1	Emission Source: FZ6SS
Emission Unit: U-00003 Process: FZ2	Emission Source: FZ3SS
Emission Unit: U-00003 Process: FZ2	Emission Source: FZ4SS
Emission Unit: U-00003 Process: FZ2	Emission Source: FZEP1
Emission Unit: U-00003 Process: FZ2	Emission Source: FZEP2

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 48.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A QIP shall be implemented (consistent with the CAM provisions of 40 CFR 64, Subpart D) when any scrubber or wet ESP parameter is outside the limits established during the most recent stack test for more than 5 percent of the total operating time in a 6 month block reporting period.

The following are the process and emission source associations effected by this condition:

Process FZ1, Emission Source FZ1SS – Forming zone A

Process FZ1, Emission Source FZ2SS – Forming zone B

Process FZ1, Emission Source FZ5SS – Forming zone E

Process FZ1, Emission Source FZ6SS – Forming zone F

Process FZ2, Emission Source FZ3SS – Forming zone C

Process FZ2, Emission Source FZ4SS – Forming zone D

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 49: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR 64.8

Item 49.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ1SS

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ2SS

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ5SS

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ6SS

Emission Unit: U-00003



New York State Department of Environmental Conservation

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Process: FZ2 Emission Source: FZ3SS

Emission Unit: U-00003
Process: FZ2 Emission Source: FZ4SS

Emission Unit: U-00003
Process: FZ2 Emission Source: FZEP1

Emission Unit: U-00003
Process: FZ2 Emission Source: FZEP2

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Each scrubber or wet ESP shall be operated such that the monitored parameter is not outside the limits established during the most recent stack test for more than 10% of the total operating time in a 6 month block reporting period.

The following are the process and emission source associations effected by this condition:

Process FZ1, Emission Source FZ1SS – Forming zone A

Process FZ1, Emission Source FZ2SS – Forming zone B

Process FZ1, Emission Source FZ5SS – Forming zone E

Process FZ1, Emission Source FZ6SS – Forming zone F

Process FZ2, Emission Source FZ3SS – Forming zone C

Process FZ2, Emission Source FZ4SS – Forming zone D

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

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

**Condition 50: Emission Point Definition By Emission Unit
Effective between the dates of 10/03/2016 and 10/02/2021**



Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 50.1(From Mod 1):

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

Emission Unit: U-00013

Emission Point: 00017
Height (ft.): 76 Length (in.): 216 Width (in.): 36
NYTMN (km.): 4715.12 NYTME (km.): 592.444

Item 50.2(From Mod 0):

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

Emission Unit: U-00001

Emission Point: 00002
Height (ft.): 95 Diameter (in.): 9
NYTMN (km.): 4715.057 NYTME (km.): 592.416 Building: 1

Item 50.3(From Mod 0):

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

Emission Unit: U-00002

Emission Point: 00101
Height (ft.): 70 Diameter (in.): 34
NYTMN (km.): 4715.343 NYTME (km.): 592.404 Building: 1

Emission Point: 00300
Height (ft.): 160 Diameter (in.): 58
NYTMN (km.): 4715.115 NYTME (km.): 592.373 Building: 1

Item 50.4(From Mod 0):

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

Emission Unit: U-00003

Emission Point: 00005
Height (ft.): 76 Length (in.): 192 Width (in.): 36
NYTMN (km.): 4715.104 NYTME (km.): 592.459

Emission Point: 00006
Height (ft.): 50 Diameter (in.): 42
NYTMN (km.): 4715.122 NYTME (km.): 592.486

Emission Point: 00022
Height (ft.): 45 Diameter (in.): 14
NYTMN (km.): 4715.12 NYTME (km.): 592.472

Emission Point: 00102
Height (ft.): 105 Diameter (in.): 55

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NYTMN (km.): 4715.34 NYTME (km.): 592.494

Emission Point: 00103
Height (ft.): 105 Diameter (in.): 55
NYTMN (km.): 4715.34 NYTME (km.): 592.494

Emission Point: 00104
Height (ft.): 45 Diameter (in.): 14
NYTMN (km.): 4715.34 NYTME (km.): 592.493

Emission Point: 00105
Height (ft.): 80 Diameter (in.): 32
NYTMN (km.): 4715.34 NYTME (km.): 592.493 Building: 1

Item 50.5(From Mod 0):

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

Emission Unit: U-00005

Emission Point: 00013
Height (ft.): 41 Diameter (in.): 16
NYTMN (km.): 4715.12 NYTME (km.): 592.488

Item 50.6(From Mod 0):

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

Emission Unit: U-00006

Emission Point: 00009
Height (ft.): 4 Diameter (in.): 7
NYTMN (km.): 4715.241 NYTME (km.): 592.458

Emission Point: 00011
Height (ft.): 22 Diameter (in.): 5
NYTMN (km.): 4715.25 NYTME (km.): 592.469

Emission Point: 00012
Height (ft.): 22 Diameter (in.): 5
NYTMN (km.): 4715.246 NYTME (km.): 592.459

Emission Point: 00020
Height (ft.): 22 Diameter (in.): 5
NYTMN (km.): 4715.258 NYTME (km.): 592.453

Emission Point: 00040
Height (ft.): 19 Diameter (in.): 6
NYTMN (km.): 4715.259 NYTME (km.): 592.462

Emission Point: 00041
Height (ft.): 19 Diameter (in.): 6
NYTMN (km.): 4715.259 NYTME (km.): 592.462

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Emission Point: 00042
Height (ft.): 18 Diameter (in.): 6
NYTMN (km.): 4715.259 NYTME (km.): 592.462

Item 50.7(From Mod 0):

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

Emission Unit: U-00007

Emission Point: 00027
Height (ft.): 34 Length (in.): 54 Width (in.): 54
NYTMN (km.): 4715.278 NYTME (km.): 592.471

Item 50.8(From Mod 0):

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

Emission Unit: U-00008

Emission Point: 00030
Height (ft.): 35 Length (in.): 96 Width (in.): 48
NYTMN (km.): 4715.386 NYTME (km.): 592.578

Emission Point: 00031
Height (ft.): 35 Length (in.): 96 Width (in.): 48
NYTMN (km.): 4715.405 NYTME (km.): 592.573

Item 50.9(From Mod 0):

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

Emission Unit: U-00009

Emission Point: 00035
Height (ft.): 68 Length (in.): 240 Width (in.): 912
NYTMN (km.): 4715.282 NYTME (km.): 592.449

Item 50.10(From Mod 0):

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

Emission Unit: U-00011

Emission Point: 00014
Height (ft.): 94 Diameter (in.): 10
NYTMN (km.): 4715.067 NYTME (km.): 592.404

Item 50.11(From Mod 0):

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

Emission Unit: U-00012

Emission Point: 00201
Height (ft.): 70 Diameter (in.): 34
NYTMN (km.): 4715.343 NYTME (km.): 592.403 Building: 1



Item 50.12(From Mod 0):

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

Emission Unit: U-00014

Emission Point: 00018

Height (ft.): 50 Diameter (in.): 60
NYTMN (km.): 4715.141 NYTME (km.): 592.469

Emission Point: 00021

Height (ft.): 44 Diameter (in.): 14
NYTMN (km.): 4715.115 NYTME (km.): 592.467

Item 50.13(From Mod 0):

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

Emission Unit: U-00015

Emission Point: 00019

Height (ft.): 40 Diameter (in.): 16
NYTMN (km.): 4715.139 NYTME (km.): 592.472

Item 50.14(From Mod 0):

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

Emission Unit: U-00016

Emission Point: 00032

Height (ft.): 35 Length (in.): 90 Width (in.): 48
NYTMN (km.): 4715.404 NYTME (km.): 592.556

Item 50.15(From Mod 0):

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

Emission Unit: U-00017

Emission Point: 00028

Height (ft.): 55 Length (in.): 30 Width (in.): 60
NYTMN (km.): 4715.447 NYTME (km.): 592.534

Emission Point: 00029

Height (ft.): 55 Length (in.): 30 Width (in.): 60
NYTMN (km.): 4715.453 NYTME (km.): 592.553

Item 50.16(From Mod 0):

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

Emission Unit: U-00018

Emission Point: 00036

Height (ft.): 68 Length (in.): 240 Width (in.): 360



NYTMN (km.): 4715.305 NYTME (km.): 592.427

Condition 51: Process Definition By Emission Unit
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 51.1(From Mod 1):

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

Emission Unit: U-00013
Process: FC2 Source Classification Code: 3-05-012-04
Process Description:

DM-2 mixing chamber. Mixing chamber mixes 2 air streams:
1) saturated air from the fiber forming process that goes
through a dropout box and moisture eliminator; and 2)
exhaust air from the cure oven afterburner. The oven
cures the fiber pack prior to fabrication.

Emission Source/Control: DM2AB - Control
Control Type: DIRECT FLAME AFTERBURNER

Emission Source/Control: DM2DB - Control
Control Type: GAS SCRUBBER (GENERAL, NOT CLASSIFIED)

Emission Source/Control: DM2ME - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: DM2CO - Process

Emission Source/Control: DM2FA - Process

Item 51.2(From Mod 0):

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

Emission Unit: U-00001
Process: MB1 Source Classification Code: 3-05-012-21
Process Description:

Process provides for surge storage of mixed (sand &
mineral) batch at the furnace. The mixed batch is
pneumatically conveyed from a separate blending operation
to this batch bin.

Emission Source/Control: DM1FF - Control
Control Type: FABRIC FILTER

Emission Source/Control: DM1MB - Process

Item 51.3(From Mod 0):

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

Emission Unit: U-00002



Process: OX1 Source Classification Code: 3-05-012-02

Process Description:

Conversion of sand and mineral batch to glass by thermal heating through oxy fuel fired melter. This process is handled by emission point 00300 in normal operating mode and 00101 during DEP emergency shutdown, maintenance or malfunction.

Emission Source/Control: DM1EP - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: DM10M - Process

Item 51.4(From Mod 0):

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

Emission Unit: U-00003

Process: BP1 Source Classification Code: 3-05-012-06

Process Description:

This process represents the operation of DM-1 cooling section by itself while DM-1 smoke stripper is out of service due to scheduled maintenance events. Section 201-1.4 applies during scheduled maintenance which is performed under section 200.7.

Emission Source/Control: DM1DM - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: DM1EF - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM1F1 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM1F2 - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM1S1 - Control
Control Type: WET SCRUBBER

Emission Source/Control: DM1S2 - Control
Control Type: WET SCRUBBER

Emission Source/Control: FZEP1 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FZEP2 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: DM1CA - Process

Emission Source/Control: DM1SS - Process



Item 51.5(From Mod 0):

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

Emission Unit: U-00003
Process: CO1 Source Classification Code: 3-05-012-05
Process Description:
This process involves the operation of a curing oven which cures the fiber pack prior to fabrication.

Emission Source/Control: DM1AB - Control
Control Type: DIRECT FLAME AFTERBURNER WITH HEAT EXCHANGER

Emission Source/Control: DM1CO - Process

Item 51.6(From Mod 0):

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

Emission Unit: U-00003
Process: CS1 Source Classification Code: 3-05-012-06
Process Description:
This process involves the cooling of the pack prior to packaging by passing air through the pack. This process contains emission point 00006.

Emission Source/Control: DM1DM - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: DM1EF - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM1CA - Process

Item 51.7(From Mod 0):

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

Emission Unit: U-00003
Process: FZ1 Source Classification Code: 3-05-012-04
Process Description:
Forming zones FZ001, FZ002, FZ005, and FZ006 draw pack forming air from beneath the pack forming conveyor. This process is handled by emission point 00005.

Emission Source/Control: DM1PH - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: FZ1SS - Control
Control Type: WET SCRUBBER

Emission Source/Control: FZ2SS - Control
Control Type: WET SCRUBBER

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Source/Control: FZ5SS - Control
Control Type: WET SCRUBBER

Emission Source/Control: FZ6SS - Control
Control Type: WET SCRUBBER

Emission Source/Control: FZ001 - Process

Emission Source/Control: FZ002 - Process

Emission Source/Control: FZ005 - Process

Emission Source/Control: FZ006 - Process

Item 51.8(From Mod 0):

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

Emission Unit: U-00003

Process: FZ2

Source Classification Code: 3-05-012-04

Process Description:

Forming zones FZ003 and FZ004 draw pack forming air from beneath the pack forming conveyor. This process is vented through emission points 00102 and 00103.

Emission Source/Control: FZ3SS - Control
Control Type: WET SCRUBBER

Emission Source/Control: FZ4SS - Control
Control Type: WET SCRUBBER

Emission Source/Control: FZEP1 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FZEP2 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FZ003 - Process

Emission Source/Control: FZ004 - Process

Item 51.9(From Mod 0):

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

Emission Unit: U-00003

Process: ME1

Source Classification Code: 3-05-012-04

Process Description:

This process provides the ventilation for the basement portion of the forming zones.

Emission Source/Control: DM1ME - Control
Control Type: MIST ELIMINATOR



Emission Source/Control: DM1BH - Process

Item 51.10(From Mod 0):

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

Emission Unit: U-00003

Process: SS1

Source Classification Code: 3-05-012-06

Process Description:

This process is used to draw air through the pack to "strip" out the smoke and pollutant gases. This process is served by emission points 00102 and 00103 during normal operation, and 00104 and 00022 during wet electrostatic precipitator downtime. Operation of DM1SS does not require the simultaneous use of controls.

Emission Source/Control: DM1F1 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM1F2 - Control

Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM1S1 - Control

Control Type: WET SCRUBBER

Emission Source/Control: DM1S2 - Control

Control Type: WET SCRUBBER

Emission Source/Control: FZEP1 - Control

Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FZEP2 - Control

Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: DM1SS - Process

Item 51.11(From Mod 0):

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

Emission Unit: U-00005

Process: AA1

Source Classification Code: 4-05-005-99

Process Description:

DM-1 asphalt applicator. Process applies a thin coating of petroleum-based asphalt to paper for the backing on fiberglass insulation.

Emission Source/Control: DM1AA - Process

Item 51.12(From Mod 0):

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

Emission Unit: U-00005

New York State Department of Environmental Conservation
Permit ID: 4-0122-00004/00039 Facility DEC ID: 4012200004



Process: FG1 Source Classification Code: 4-05-005-99
Process Description:
DM-1 flexographic printing. This process uses ink to
print information on the fiberglass backing (paper
substrate)

Emission Source/Control: DM1FG - Process

Item 51.13(From Mod 0):

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

Emission Unit: U-00006
Process: 212 Source Classification Code: 4-07-999-98
Process Description:
Storage tanks including asphalt and process vegetable oil
tanks.

Emission Source/Control: ASPST - Process

Emission Source/Control: PROST - Process

Item 51.14(From Mod 0):

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

Emission Unit: U-00006
Process: 229 Source Classification Code: 4-07-999-98
Process Description:
Storage tanks including asphalt and process vegetable oil
tanks.

Emission Source/Control: ASPST - Process

Emission Source/Control: PROST - Process

Item 51.15(From Mod 0):

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

Emission Unit: U-00006
Process: MSH Source Classification Code: 4-07-999-98
Process Description:
Storage tanks including two Maltodextrin (MALT1 & MALT2)
tanks and one Sodium Hydroxide (NAOH1) tank.

Emission Source/Control: MALT1 - Process
Design Capacity: 15,227 gallons

Emission Source/Control: MALT2 - Process
Design Capacity: 15,227 gallons

Emission Source/Control: NAOH1 - Process
Design Capacity: 13,900 gallons



Item 51.16(From Mod 0):

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

Emission Unit: U-00007
Process: BDR Source Classification Code: 4-07-999-98
Process Description:
Binder room contains various process mix tanks (including the exempt binder mix and circulation tanks) used in the production of binder. The binder room is exhausted through a ceiling fan.

Emission Source/Control: BINDR - Process

Item 51.17(From Mod 0):

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

Emission Unit: U-00008
Process: BC1 Source Classification Code: 3-05-012-99
Process Description:
Eight collection units associated with fiberglass insulation bagging equipment.

Emission Source/Control: DM12C - Process

Emission Source/Control: DM16C - Process

Item 51.18(From Mod 0):

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

Emission Unit: U-00009
Process: CA1 Source Classification Code: 3-05-012-02
Process Description:
The conditioning area includes the conditioning section and forehearth of the hot end, the areas surrounding the furnace, and the batch charger system. Emissions from these three activities originate inside the building and eventually exit the building through louvers.

Emission Source/Control: DM1CN - Process

Item 51.19(From Mod 0):

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

Emission Unit: U-00010
Process: FES Source Classification Code: 3-05-012-99
Process Description:
Fugitive emission sources including: wash water system, aggregate cullet storage pile, and unloading and mixing of glass batch material.

Emission Source/Control: AGCSP - Process

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Emission Source/Control: ECSYS - Process

Emission Source/Control: WWSYS - Process

Item 51.20(From Mod 0):

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

Emission Unit: U-00010

Process: INK

Source Classification Code: 4-05-005-99

Process Description: Fugitive emissions from inkjet printing.

Emission Source/Control: DM1IJ - Process

Item 51.21(From Mod 0):

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

Emission Unit: U-00011

Process: MB2

Source Classification Code: 3-05-012-21

Process Description:

DM-2 mixed batch bin. Process provides for surge storage of mixed (sand and mineral) batch at the furnace. The mixed batch is pneumatically conveyed from a separate blending operation to this batch bin.

Emission Source/Control: DM2FF - Control

Control Type: FABRIC FILTER

Emission Source/Control: DM2MB - Process

Item 51.22(From Mod 0):

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

Emission Unit: U-00012

Process: OX2

Source Classification Code: 3-05-012-02

Process Description:

Conversion of sand and mineral batch to glass by thermal heating through oxy fuel fired melter. This process is handled by emission point 00300 in normal operating mode and 00201 during DEP emergency shutdown, maintenance or malfunction.

Emission Source/Control: DM2EP - Control

Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: DM2OM - Process

Item 51.23(From Mod 0):

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

Emission Unit: U-00014

Process: CS2

Source Classification Code: 3-05-012-06

Process Description:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



DM-2 cooling area. This process represents the operation of DM-2 cooling section by itself while DM-2 smoke stripper is out of service due to scheduled maintenance events. Section 201-1.4 applies during this scheduled maintenance which is performed under section 200.7.

Emission Source/Control: DM2AF - Control
Control Type: MAT OR PANEL FILTER

Emission Source/Control: DM2AS - Control
Control Type: WET SCRUBBER

Emission Source/Control: DM2CS - Control
Control Type: WET SCRUBBER

Emission Source/Control: DM2DM - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: DM2EF - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM2WS - Control
Control Type: SINGLE CYCLONE

Emission Source/Control: DM2CA - Process

Item 51.24(From Mod 0):

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

Emission Unit: U-00014

Process: SC2

Source Classification Code: 3-05-012-06

Process Description:

DM-2 cooling area. This process removes smoke from the cured fiberglass and draws cooling air through the glass pack.

Emission Source/Control: DM2AF - Control
Control Type: MAT OR PANEL FILTER

Emission Source/Control: DM2AS - Control
Control Type: WET SCRUBBER

Emission Source/Control: DM2CS - Control
Control Type: WET SCRUBBER

Emission Source/Control: DM2DM - Control
Control Type: MIST ELIMINATOR

Emission Source/Control: DM2EF - Control
Control Type: HIGH EFFICIENCY PARTICULATE AIR FILTER

Emission Source/Control: DM2WS - Control

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Control Type: SINGLE CYCLONE

Emission Source/Control: DM2CA - Process

Item 51.25(From Mod 0):

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

Emission Unit: U-00015

Process: AA2

Source Classification Code: 4-05-005-99

Process Description:

DM-2 asphalt applicator. Process applies a thin coat of petroleum-based asphalt to paper substrate that is the backing of fiberglass insulation.

Emission Source/Control: DM2AA - Process

Item 51.26(From Mod 0):

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

Emission Unit: U-00015

Process: FG2

Source Classification Code: 4-05-005-99

Process Description:

DM-2 flexographic printing. This process uses ink to print information on the fiberglass backing.

Emission Source/Control: DM2FG - Process

Item 51.27(From Mod 0):

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

Emission Unit: U-00016

Process: BC2

Source Classification Code: 3-05-012-99

Process Description:

DM-2 bagging equipment. Eight dust collection units associated with the fiberglass bagging equipment.

Emission Source/Control: DM28C - Process

Item 51.28(From Mod 0):

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

Emission Unit: U-00017

Process: PC1

Source Classification Code: 3-05-012-99

Process Description:

The penclone units are used to collect particulate matter resulting from fiberglass cutting, trimming, and repack operations.

Emission Source/Control: PC003 - Process

Emission Source/Control: PC124 - Process



Item 51.29(From Mod 0):

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

Emission Unit: U-00017
Process: PC2 Source Classification Code: 3-05-012-99
Process Description: Operation of bisect saw on DM-2 manufacturing line
Emission Source/Control: BISAW - Process

Item 51.30(From Mod 0):

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

Emission Unit: U-00018
Process: CA2 Source Classification Code: 3-05-012-02
Process Description: Conditioning
Emission Source/Control: DM2CN - Process

**Condition 52: Emission Unit Permissible Emissions
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 52.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00008
CAS No: 0NY075005 (From Mod 0)
Name: PM-10
PTE(s): 45,613 pounds per year
5.207 pounds per hour

Emission Unit: U-00009
CAS No: 0NY075005 (From Mod 0)
Name: PM-10
PTE(s): 0.136 pounds per hour
1,191 pounds per year

Emission Unit: U-00010
CAS No: 0NY075005 (From Mod 0)
Name: PM-10
PTE(s): 2,435 pounds per year
0.278 pounds per hour

Emission Unit: U-00017
CAS No: 0NY075005 (From Mod 0)



Name: PM-10
PTE(s): 6.336 pounds per hour
55,503 pounds per year

Emission Unit: U-00001

CAS No: 0NY075005 (From Mod 0)
Name: PM-10
PTE(s): 0.024 pounds per hour
210 pounds per year

Condition 53: Process Permissible Emissions
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 53.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00016 Process: BC2
CAS No: 0NY075-00-0 (From Mod 0)
Name: PARTICULATES
PTE(s): 0.0082 grains per dscf
27.77 pounds per hour
243,266 pounds per year

Emission Unit: U-00018 Process: CA2
CAS No: 0NY075-00-0 (From Mod 0)
Name: PARTICULATES
PTE(s): 0.05 grains per dscf
128.57 pounds per hour
1,126,274 pounds per year

Condition 54: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10

Item 54.2:

Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment New Source Review (PSD). For this emission unit, the cap is set at 0.024 lb/hr, with annual emissions also capped to the product of this limit and 8760 hours/year. Stack testing of this emission unit is not possible due to a lack of an actual stack and because of varying parameters. Therefore, to monitor compliance with the ton per year and lb/hr thresholds, the facility shall track and record the number of batch transfers throughout the year.

Records shall be kept in accordance with part 201-6.4(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 55: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 55.1:

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:

40 CFR 52.21

Item 55.2:

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

Item 55.3:

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 55.4:

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

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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 55.5:

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 55.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007439-92-1	LEAD
CAS No: 007446-09-5	SULFUR DIOXIDE
CAS No: 007664-39-3	HYDROGEN FLUORIDE
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY210-00-0	OXIDES OF NITROGEN
CAS No: 0NY075-00-0	PARTICULATES

Item 55.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions capped at 1) less than the 25 ton/yr significance threshold for PM; 2) less than the 15 ton/yr significance threshold for PM-10; 3) less than the 40 ton/yr significance threshold for NO_x, SO₂; 4) less than the 100 ton/yr significance threshold for CO; 5) less than the 3 ton/yr significance threshold for hydrogen fluoride; 6) less than the 0.6 ton/yr significance threshold for lead, to avoid attainment New Source Review (PSD).

The sum of future potential emissions from the emissions units specified in this permit, a) this includes emission units U-00001, U-00002, U-00003, U-00005, U-00008, U-00009, U-00010, U-00011, U-00012, U-00017 for PM, PM-10; b) this includes emission units U-00002, U-00003, U-00012 for NO_x, CO; c) this includes emission units U-00002, U-00003, U-00009, U-00012 for SO₂; d) this includes emission units U-00002, U-00009, U-00012 for hydrogen fluoride, lead, capped 1), 2) at 179.81 ton/yr for PM, PM-10; 3a) at 220.157 ton/yr for NO_x; 3b) at 68.188 ton/yr

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for SO₂; 4) at 174.34 ton/yr for CO; 5) at 0.179 ton/yr for hydrogen fluoride; 6) at 0.0058 ton/yr for lead.

Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Permit Limit: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 56: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 56.1:

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 231-2

Item 56.2:

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

Item 56.3:

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 56.4:

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 56.5:

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

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the Act.

Item 56.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

CAS No: 0NY998-00-0 VOC

Item 56.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the past project that involved this emission unit, Maximum Annual Potential (MAP) minus prior actual annual emissions are capped at less than the 40 ton/yr significant source project threshold (SSPT) to avoid non-attainment New Source Review (Part 231-2).

The sum of future potential emissions from the emissions units specified in this permit, a) this includes emission units U-00002, U-00003, U-00005, U-00007, U-00010, U-00012 for VOC, b) this includes emission units U-00002, U-00003, U-00012 for NOx, capped 1) at 54.776 ton/yr for VOC; 2) at 220.157 ton/yr for NOx.

Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Permit Limit: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 57: Capping Monitoring Condition

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 57.1:

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

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the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

40 CFR 52.21

Item 57.2:

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

Item 57.3:

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 57.4:

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 57.5:

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 57.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 57.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment new source review (PSD).

A stack test shall be done at the frequency below.

Upper Permit Limit: 3.542 pounds per hour

Reference Test Method: Methods 5 and 202

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Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 58: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 58.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary voltage limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: VOLTAGE
Lower Permit Limit: 30 kilovolts
Upper Permit Limit: 70 kilovolts
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 59: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant(s):

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



CAS No: ONY075-00-0 PARTICULATES

Item 59.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary amperage limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: CURRENT/CURRENT DRAW

Lower Permit Limit: 100 milliamps

Upper Permit Limit: 400 milliamps

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 60: Capping Monitoring Condition

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 60.1:

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:

40 CFR 52.21

Item 60.2:

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

Item 60.3:

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 60.4:

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

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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 60.5:

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 60.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 60.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment New Source Review (PSD).

Stack testing to be performed at the frequency below. The stack test shall be done for emission points 00005, 00102, 00103.

This limit is based on the total emissions from emission unit U-00003. Since only 3 of the 5 systems in the unit are to be stack tested, 1.264 lb/hr must be added (for the 1] mist eliminator and 2] cooling section) to the results from the 3 stacks and compared to the 23.131 lb/hr limit.

Upper Permit Limit: 23.131 pounds per hour

Reference Test Method: Methods 5 and 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 61: Compliance Certification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

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Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

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Item 61.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator (emission sources FZEP1 and FZEP2) solids content of plate wash water limited to the value during the most recent stack test. As an alternative, the pounds per gallon limit may be met.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.75 percent by weight

Reference Test Method: Owens Corning Test Method

Monitoring Frequency: DAILY

Averaging Method: 7-DAY AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 62: Compliance Certification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 62.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator (emission sources FZEP1 and FZEP2) solids content of plate wash water limited to the value from the

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most recent stack test. As an alternative, the percent by weight limit may be met.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: CONCENTRATION
Upper Permit Limit: 0.025 pounds per gallon
Reference Test Method: Owens Corning Test Method
Monitoring Frequency: DAILY
Averaging Method: 7-DAY AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 63: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003
Process: FZ1 Emission Source: FZ1SS

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 63.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Pressure drop minimum is limited to the value from the most recent stack test. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency.

Records shall be kept in accordance with 201-6.4(c).

Parameter Monitored: PRESSURE CHANGE
Lower Permit Limit: 4 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 64: Compliance Certification



Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003
Process: FZ1 Emission Source: FZ1SS

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 64.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate limited to the value from the most recent
stack test.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: MASS FLOW RATE
Lower Permit Limit: 170 gallons per minute
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 65: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003
Process: FZ1 Emission Source: FZ2SS

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 65.2:

Compliance Certification shall include the following monitoring:

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

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Description:

Pressure drop limited to the value from the most recent stack test. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 66: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ2SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 66.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate limited to the value from the most recent stack test.

Records shall be maintained in accordance with part 201-6.4(c).

Parameter Monitored: MASS FLOW RATE

Lower Permit Limit: 100 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Condition 67: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ5SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 67.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate limited to the value from the most recent
stack test.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: MASS FLOW RATE

Lower Permit Limit: 100 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 68: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ5SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

Pressure drop limited to the value from the most recent stack test. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 69: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ6SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 69.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Pressure drop limited to the value from the most recent stack test. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Subsequent reports are due every 6 calendar month(s).

Condition 70: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ6SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 70.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate limited to the value from the most recent
stack test.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: MASS FLOW RATE

Lower Permit Limit: 170 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 71: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZ3SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 71.2:

Compliance Certification shall include the following monitoring:

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



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

Monitoring Description:

Pressure drop limited to the value from the most recent stack test. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 72: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZ3SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 72.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate limited to the value from the most recent stack test.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: MASS FLOW RATE

Lower Permit Limit: 200 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Subsequent reports are due every 6 calendar month(s).

Condition 73: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZ4SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 73.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate limited to the value from the most recent
stack test.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: MASS FLOW RATE

Lower Permit Limit: 200 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 74: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZ4SS

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 74.2:

Compliance Certification shall include the following monitoring:



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

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

Monitoring Description:

Pressure drop limited to the value from the most recent stack test. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: PRESSURE CHANGE

Lower Permit Limit: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 75: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZEP1

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 75.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary amperage is limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: CURRENT/CURRENT DRAW

Lower Permit Limit: 100 milliamps

Upper Permit Limit: 400 milliamps

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE



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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003
Process: FZ2 Emission Source: FZEP1

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 76.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary voltage is limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: VOLTAGE
Lower Permit Limit: 30 kilovolts
Upper Permit Limit: 70 kilovolts
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 77: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003
Process: FZ2 Emission Source: FZEP2

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 77.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary amperage is limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: CURRENT/CURRENT DRAW

Lower Permit Limit: 100 milliamps

Upper Permit Limit: 400 milliamps

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 78: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZEP2

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 78.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary voltage is limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

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Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: VOLTAGE
Lower Permit Limit: 30 kilovolts
Upper Permit Limit: 70 kilovolts
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR BLOCK AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 79: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 228-1.3 (b) (1)

Item 79.1:

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

Emission Unit: U-00005	Emission Point: 00013
Process: AA1	Emission Source: DM1AA
Emission Unit: U-00015	Emission Point: 00019
Process: AA2	Emission Source: DM2AA

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator of an emission source subject to 6 NYCRR Part 228-1 must maintain the following records in a format acceptable to the department for a period of at least five years:

1. A certification from the coating supplier or manufacturer which lists the parameters used to determine the actual VOC content of each as applied coating used at the facility.
2. Purchase, usage and/or production records of each coating material, including solvents.
3. Records identifying each air cleaning device that has an overall removal efficiency of at least 90 percent.
4. Records verifying each parameter used to calculate the overall removal efficiency, as described in Equation 2 of Section 228-1.5(c), if applicable.

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Facility DEC ID: 4012200004



5. Any additional information required to determine compliance with Part 228-1.

Upon request, the owner or operator of an emission source subject to 6 NYCRR Part 228-1 must submit a copy of the records kept in accordance with this condition to the department within 90 days of receipt of the request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 80: VOL storage tanks from 10000 - 20000 gallons
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable Federal Requirement:6 NYCRR 229.3 (e) (2) (iv)

Item 80.1:

This Condition applies to Emission Unit: U-00006

Item 80.2:

Volatile organic liquid tanks with a capacity greater than or equal to 10,000 gallons but less than 20,000 gallons must be equipped with submerged fill.

**Condition 81: VOL storage tanks less than 10000 gallons
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable Federal Requirement:6 NYCRR 229.3 (e) (2) (v)

Item 81.1:

This Condition applies to Emission Unit: U-00006

Item 81.2:

Volatile organic liquid tanks with a capacity of less than 10,000 gallons must be equipped with a conservation vent.

**Condition 82: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 82.1:

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:

40 CFR 52.21



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Item 82.2:

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

Item 82.3:

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 82.4:

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 82.5:

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 82.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00008

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 82.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment new Source Review (PSD).

Stack testing to be performed at the discretion of the department.

Upper Permit Limit: 5.207 pounds per hour

Reference Test Method: Methods 5 and 202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 83: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR 231-11.2 (c)

Item 83.1:

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

Emission Unit: U-00008

Emission Unit: U-00016

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, but equals or exceeds 50 percent of the applicable significant project threshold when emissions excluded in accordance with clause 231-4.1(b)(41)(i)(c) of this Part are added and is less than the applicable significant project threshold, or for a modification with a project emission potential which equals or exceeds 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part and is less than the applicable significant project threshold, the facility owner or operator must submit an application to modify the facility permit under the minor permit provisions of Subpart 201-6 of this Title or obtain a preconstruction permit under the provisions of Subpart 201-6 of this Title, and must:

(1) maintain the following information for a minimum of five years:

- (i) a description of the modification.
- (ii) an identification of each new or modified emission source(s) including the associated processes and emission unit.
- (iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation.



(iv) the date the modification commenced operation.

(2) monitor the emissions of each regulated NSR contaminant from the emission source(s) that will increase as a result of the modification, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the modification, or for a period of 10 years following resumption of regular operations after the change if the modification increases the design capacity of or potential to emit the regulated NSR contaminant at such emission source(s); and

(3) submit a report to the department within 30 days after the end of each year during which records must be generated in accordance with Paragraph 231-11.2(c)(2) of this Part. The report must contain:

(i) the name, address, and telephone number of the major facility.

(ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this Section.

(iii) a comparison of actual annual emissions to the projected actual emissions and, if applicable, an explanation as to why the actual annual emissions exceeded the projected actual emissions.

Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 84: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 84.1:
The Compliance Certification activity will be performed for:

Emission Unit: U-00009

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10

Item 84.2:
Compliance Certification shall include the following monitoring:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than 0.136 lb/hr, that is, less than the 15 ton/yr significance threshold for PM-10 to avoid attainment New Source Review (PSD).

Stack testing of this emission unit is not possible: there is no exhaust stack and it is not possible to retrofit anything onto the unit which would capture all of its emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 85: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00010

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment New Source Review (PSD). For this emission unit, the cap is set at 0.278 lb/hr, with annual emissions also capped to the product of this limit and 8760 hours/year. Emissions from sources in this emission unit are fugitive in nature, and thus stack testing of this emission unit is not possible due to a lack of an actual stack and because of varying parameters.

Therefore, to monitor compliance with the ton per year and lb/hr thresholds, the facility shall on a continuous basis comply with its fugitive dust control plan required for this emission unit elsewhere in this permit (under 6

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Facility DEC ID: 4012200004



NYCRR 211.2 citation).

Records shall be kept in accordance with part 201-6.4(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 86: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00011

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment New Source Review (PSD). For this emission unit, the cap is set at 0.024 lb/hr, with annual emissions also capped to the product of this limit and 8760 hours/year. Stack testing of this emission unit is not possible due to a lack of an actual stack and because of varying parameters. Therefore, to monitor compliance with the ton per year and lb/hr thresholds, the facility shall track and record the number of batch transfers throughout the year.

Records shall be kept in accordance with part 201-6.4(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 87: Capping Monitoring Condition



Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 87.1:

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:

40 CFR 52.21

Item 87.2:

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

Item 87.3:

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 87.4:

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 87.5:

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 87.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007439-92-1	LEAD
CAS No: 007446-09-5	SULFUR DIOXIDE
CAS No: 007664-39-3	HYDROGEN FLUORIDE
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY210-00-0	OXIDES OF NITROGEN
CAS No: 0NY075-00-0	PARTICULATES

Item 87.7:

Compliance Certification shall include the following monitoring:

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions capped at 1) less than the 25 ton/yr significance threshold for PM; 2) less than the 15 ton/yr significance threshold for PM-10; 3) less than the 40 ton/yr significance threshold for NOx, SO2; 4) less than the 100 ton/yr significance threshold for CO; 5) less than the 3 ton/yr significance threshold for hydrogen fluoride; 6) less than the 0.6 ton/yr significance threshold for lead to avoid attainment New Source Review (PSD).

The sum of future potential emissions from the emissions units specified in this permit, a) this includes emission units U-00001, U-00002, U-00003, U-00005, U-00008, U-00009, U-00010, U-00011, U-00012, U-00017 for PM, PM-10; b) this includes emission units U-00002, U-00003, U-00012 for NOx, CO; c) this includes emission units U-00002, U-00003, U-00009, U-00012 for SO2; d) this includes emission units U-00002, U-00009, U-00012 for hydrogen fluoride, lead, capped 1), 2) at 179.81 ton/yr for PM, PM-10; 3a) at 220.157 ton/yr for NOx; 3b) at 68.188 ton/yr for SO2; 4) at 174.34 ton/yr for CO; 5) at 0.179 ton/yr for hydrogen fluoride; 6) at 0.0058 ton/yr for lead.

Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Permit Limit: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 88: Capping Monitoring Condition

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 88.1:

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

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



otherwise be subject to:

40 CFR 52.21

Item 88.2:

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

Item 88.3:

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 88.4:

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 88.5:

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 88.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 88.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid attainment New Source Review (PSD). This limit is approximately equivalent to 0.336 lbs/ ton of glass (method 5).

A stack test shall be done at the monitoring frequency below.

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Upper Permit Limit: 2.224 pounds per hour
Reference Test Method: Methods 5 and 202
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 89: Capping Monitoring Condition
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 89.1:

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 231-2

Item 89.2:

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

Item 89.3:

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 89.4:

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 89.5:

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 89.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN
CAS No: 0NY998-00-0 VOC

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 89.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the past project that involved this emission unit, Maximum Annual Potential (MAP) minus prior actual annual emissions are capped at less than the 40 ton/yr significant source project threshold (SSPT) to avoid non-attainment New Source Review (Part 231-2).

The sum of future potential emissions from the emissions units specified in this permit, a) this includes emission units U-00002, U-00003, U-00005, U-00007, U-00010, U-00012 for VOC, b) this includes emission units U-00002, U-00003, U-00012 for NO_x, capped 1) at 54.776 ton/yr for VOC; 2) at 220.157 ton/yr for NO_x.

Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Permit Limit: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 90: Compliance Certification

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 90.2:

Compliance Certification shall include the following monitoring:

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

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Description:

Precipitator 3rd field secondary voltage limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: VOLTAGE

Lower Permit Limit: 30 kilovolts

Upper Permit Limit: 70 kilovolts

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 91.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Precipitator 3rd field secondary amperage limited to the values from the most recent stack test. The upper limit is determined by an electronic limit in the unit's control/alarm system.

Records shall be kept in accordance with part 201-6.4(c).

Parameter Monitored: CURRENT/CURRENT DRAW

Lower Permit Limit: 100 milliamps

Upper Permit Limit: 400 milliamps

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Subsequent reports are due every 6 calendar month(s).

Condition 92: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 92.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013 Emission Point: 00017

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In instances where determination or permissible emission rate using process weight is not applicable (see Table 5 of Part 212) and for environmental rating of B or C, no person will cause or allow emissions greater than the limit below, except as provided in section 201.6 (exemptions) of Title 6. For the DM-1 line, this limit is superseded by the 40 CFR 52.21 particulate lb/hr cap for emission unit U00003. A stack test shall be done at the frequency below.

Upper Permit Limit: 0.050 grains per dscf

Reference Test Method: Method 5

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 93: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40 CFR Part 64

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013 Emission Point: 00017
Process: FC2 Emission Source: DM2DB

Regulated Contaminant(s):
CAS No: 0NY075-00-0 PARTICULATES

Item 93.2:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The DM-2 drop-out box water supply minimum shall be limited.

Within 180 days of the effective date of the permit the facility shall:

1) design, procure, install and commission the water flow monitoring instrumentation.

2) complete a water flow monitoring program. This will include creation of a data base of actual flows and analysis of the flow data to establish the minimum acceptable flow rate. Rates shall be verified once during the permit term during the required "once during permit term" stack test.

Note: if the DM-2 production line is not operational after 180 days after the effective date of this permit, then the above requirements shall commence within 180 days after the first re-start of the DM-2 production line.

Parameter Monitored: WATER

Lower Permit Limit: 480 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-hour average

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 94: Compliance Certification
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00017

Regulated Contaminant(s):

CAS No: 0NY075-00-5 PM-10

Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



For the past project that involved this emission unit, future potential minus prior actual emissions are capped at less than the 15 ton/yr significance threshold for PM-10 to avoid PSD (attainment New Source Review) requirements. For this emission unit, the cap is set at 6.336 lb/hr, with annual emissions also capped to the product of this limit and 8760 hours/year. Emissions from sources in this emission unit are fugitive in nature, and thus stack testing of this emission unit is not possible due to a lack of an actual stack and because of varying parameters. Therefore, to monitor compliance with the ton per year and lb/hr thresholds, the facility shall track operating hours of the penclone units which are used to collect particulate matter resulting from fiberglass cutting, trimming, and repacking. The facility shall also maintain normal work practices and conduct periodic inspections to ensure penclone fabric integrity.

Records shall be kept in accordance with part 201-6.4(c).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).



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 by 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 be demonstrated 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 permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize 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 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 upset provision contained in any applicable requirement.

Item B: 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 applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 95: Contaminant List
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:ECL 19-0301

Item 95.1:

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

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 000630-08-0
Name: CARBON MONOXIDE

CAS No: 007439-92-1
Name: LEAD

CAS No: 007446-09-5
Name: SULFUR DIOXIDE

CAS No: 007664-39-3
Name: HYDROGEN FLUORIDE

CAS No: 007664-41-7
Name: AMMONIA

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

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CAS No: 0NY075-00-5
Name: PM-10

CAS No: 0NY210-00-0
Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0
Name: VOC

Condition 96: Malfunctions and start-up/shutdown activities
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 201-1.4

Item 96.1:

(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 malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, 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 stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and 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. 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, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the 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.

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Condition 97: Visible Emissions Limited
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 211.2

Item 97.1:

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 98: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 220-2.4 (a)

Item 98.1:

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

Emission Unit: U-00002
Process: OX1

Emission Unit: U-00012
Process: OX2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 98.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of the facility must maintain a file of daily glass production rates. The production rates must be summarized monthly. Glass production records must be retained for at least five years following the date of such records and must be made available for inspection by the department during normal business hours.

Monitoring Frequency: MONTHLY

Averaging Method: Daily block average

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 99: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021



Applicable State Requirement:6 NYCRR 220-2.4 (c)

Item 99.1:

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

Emission Unit: U-00002
Process: OX1

Emission Unit: U-00012
Process: OX2

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 99.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a glass melting furnace shall install, calibrate, evaluate, operate, and maintain a continuous emissions monitoring system (CEMS), in accordance with the provisions of 40 CFR part 60, appendices A, B and F, for measuring NO_x and shall record the output of the system.

As part of its application for a permit or permit modification, the owner or operator of a glass melting furnace shall submit for department approval a CEMS plan.

The owner or operator of a glass melting furnace shall submit for department approval a CEMS certification protocol at least 60 days prior to CEMS certification testing. The certification protocol shall include the location of and specifications for each instrument or device, as well as procedures for calibration, operation, data evaluation, and data reporting.

The procedures in subparagraphs (i) through (v) below shall be used for determining compliance with the NO_x RACT emission limit established under section 6 NYCRR Part 220-2.3(a).

(i) The owner or operator of a glass melting furnace shall determine compliance daily on a 30 day rolling average basis. The 30 day rolling averages shall be calculated by dividing 30 day total NO_x emissions by 30 day total glass production. Only days when the furnace operates shall be included in the 30 day rolling



averages.

(ii) At a minimum, valid CEMS data shall be obtained for 90 percent of the operating hours in each calendar quarter that the subject facility is operating.

(iii) All valid CEMS data shall be used in calculating emission rates even if the minimum data requirements of subparagraph (ii) above are not met.

(iv) Along with any specific additional data requirements mandated by the department for a particular glass melting furnace, annual recertifications, quarterly accuracy, and daily calibration drift tests shall be performed in accordance with 40 CFR part 60, appendix F.

(v) When NO_x emissions data are not obtained because of CEMS downtime, or for periods when no valid CEMS data is available, emission data shall be obtained by using the 90th percentile value of all CEMS NO_x emission data collected over the last 180 days.

In addition to the requirements of subparagraphs (i) through (iii) below, the owner or operator of a glass melting furnace shall comply with the CEMS recordkeeping and reporting requirements of 40 CFR part 60, subpart A and appendix F.

(i) The owner or operator of a glass melting furnace shall notify the department of the planned initial start-up date of any new CEMS.

(ii) Emissions, monitoring, and operating parameter records or measurements required by this Subpart and any additional parameters required by the department shall be maintained for at least five years and made available to the department upon request.

(iii) On a semi-annual basis, the owner or operator of a glass melting furnace shall tabulate and summarize applicable emissions, monitoring, and operating parameter measurements recorded during the preceding six months, and submit these records to the department. These records shall be submitted in a format acceptable to the department and shall include:

(a) the 30 day rolling average NO_x emissions as specified under paragraph (4) of this subdivision;

(b) identification of the operating hours when NO_x emissions data are not included in a calculation

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of the 30 day rolling average emissions and the reasons for not including that data;

(c) a comparison of the NOx emissions to the NOx RACT emissions limit(s);

(d) type and amount of fuel burned on a daily basis and the as burned heat content of the fuel;

(e) the total daily NOx emissions and total daily glass production; and

(f) the results of CEMS accuracy assessments as required by 40 CFR part 60, appendix F and any additional data quality information required by the department.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 100: Compliance Demonstration

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 220-2.4 (d)

Item 100.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00002

Process: OX1

Emission Unit: U-00012

Process: OX2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 100.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Protocols, reports, summaries, schedules, and any other information required to be submitted to the department under provisions of this Subpart must be sent (in either hardcopy or electronically) as follows:

(1) one copy to the Division of Air Resources, New York

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State Department of Environmental Conservation, 625
Broadway, Albany, New York 12233; and

(2) one copy to the Regional Air Pollution Control
Engineer, New York State Department of Environmental
Conservation - Region 4 Office, 1130 North Westcott Road,
Schenectady, NY 12306.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 101: BART capping equation - NOx
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR Part 249

Item 101.1:

Total annual NOx emissions from the BART-eligible sources: EU2 (DM1 Oxy Fuel Furnace), EU3 (DM1 Forming, Curing, Cooling and Smoke Stripper), EU12 (DM2 Oxy Fuel Furnace), EU13 (DM2 Mixing Chamber), and EU14 (DM2 Cooling Area to include Smoke Stripper) shall not exceed 249 tons per year (tpy) NOx, calculated as a rolling, 12-month summation of emissions, and calculated on a monthly basis using the following equations:

Equation 1 – Total NOx Emissions Cap Monitoring Method

$$249 \text{ tpy} > \text{EU2NOx} + \text{EU3NOx} + \text{EU12NOx} + \text{EU13NOx} + \text{EU14NOx}$$

Where:

$\text{EU2NOx} = \text{DM1 Oxy Fuel Furnace NOx Emissions (Tons/rolling 12-month period)}$

$\text{EU3NOx} = \text{DM1 Forming,Curing,Cooling,SmokeStripper NOx Emissions (Tons/rolling 12-month period)}$

$\text{EU12NOx} = \text{DM2 Oxy Fuel Furnace NOx Emissions (Tons/rolling 12-month period)}$

$\text{EU13NOx} = \text{DM2 Mixing Chamber which comprises DM2 Forming and Curing NOx Emissions (Tons/rolling 12-month period)}$

$\text{EU14NOx} = \text{DM2 Cooling and Smoke Stripper NOx Emissions (Tons/rolling 12-month period)}$

The NOx emissions from the glass furnaces (EU2 and EU12) are calculated based on the following equation:

Equation 2 – Furnace NOx (EU2NOx and EU12NOx) Emissions Monitoring Method

$$= (\text{Niterusage} \times \text{NiterEF}) + (\text{Glasspull rate} \times \text{FurnaceNOx})$$

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Where:

Niterusage = Niter usage of each furnace (Tons/rolling 12-month period)

NiterEF = Niter NOx emission factor (tons NOx/ton niter usage), developed based on the assertion that all of the nitrogen in the niter becomes NO2

Glasspull rate = Glass pull rate of each furnace (Tons/12-month rolling period)

FurnaceNOx = NOx emission factor for each furnace (lb NOx/ton glass), developed based on most recent stack test results and credible readings from an operational NOx CEMS

The NOx emissions from the forming, curing, cooling and smoke stripper sections associated with each source (EU3, EU13, and EU14) on the wool fiberglass insulation manufacturing lines are calculated based on the following equation:

Equation 3 – Forming, Curing, Cooling and Smoke Stripper section NOx (EU3NOx, EU13NOx and EU14NOx) Emissions Monitoring Method

= (Natural Gasrate x Forming,Curing,Cooling,SmokeStripperNOx)

Where:

Natural Gasrate = natural gas that is used by the fiberizer burners (applicable to Forming sections' NOx) or the total used by the oven zone burners, stack burners and incinerator burners (applicable to Curing, Smoke Stripping and Cooling NOx) (millions of cubic feet of natural gas per rolling 12-month period)

Forming,Curing,Cooling,SmokeStripperNOx = NOx emission factor for the forming, curing, cooling and smoke stripper section of each source (lb NOx per million cubic feet of natural gas used by the source applicable burner system), developed based on most recent stack test results

**Condition 102: BART capping equation - PM-10
Effective between the dates of 10/03/2016 and 10/02/2021**

Applicable State Requirement:6 NYCRR Part 249

Item 102.1:

Total annual PM10 emissions from the BART-eligible sources: EU2 (DM1 Oxy Fuel Furnace), EU3 (DM1 Forming, Curing, Cooling and Smoke Stripper), EU12 (DM2 Oxy Fuel Furnace), EU13 (DM2 Mixing Chamber), and EU14 (DM2 Cooling Area to include Smoke Stripper) shall not exceed 249 tons per year (tpy) PM10, calculated as a rolling, 12-month summation of emissions, and calculated on a monthly basis using the following equations:

Equation 1 – Total PM10 Emissions Cap Monitoring Method

249 tpy > EU2PM10 + EU3PM10 + EU12PM10 + EU13PM10 + EU14PM10

Where:

EU2PM10 = DM1 Oxy Fuel Furnace PM10 Emissions (Tons/rolling 12-month period)

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EU3PM10 = DM1 Forming,Curing,Cooling,SmokeStripper PM10 Emissions (Tons/rolling 12-month period)

EU12PM10 = DM2 Oxy Fuel Furnace PM10 Emissions (Tons/rolling 12-month period)

EU13PM10 = DM2 Mixing Chamber which comprises Forming and Curing PM10 Emissions (Tons/rolling 12-month period)

EU14PM10 = DM2 Cooling and Smoke Stripper PM10 Emissions (Tons/rolling 12-month period)

The PM10 emissions from the glass furnaces (EU2 and EU12) are calculated based on the following equation:

Equation 2 – Furnace PM10 (EU2PM10 and EU12PM10) Emissions Monitoring Method

$$= [(HoursFurnace.DEP \times Furnace.DEPEF) + [(HoursFurnace \times FurnaceEF)]$$

Where:

HoursFurnace.DEP = Operational hours that each respective furnace discharged its emissions for control into its associated DEP (Hours/rolling 12-month period)

Furnace.DEPEF = PM10 emission factor (lb PM10/hr) equation, developed based on most recent stack test results for the combined operation of the respective furnace and associated Dry Electrostatic Precipitator (DEP)

HoursFurnace = Hours that each respective furnace operated on by-pass and its DEP not in service (Hours/rolling 12-month period)

FurnaceEF = PM10 emission factor (lb PM10/hr), developed based on most recent stack test results for the operation of the respective furnace with DEP by-passed

The PM10 emissions from the forming, curing, cooling and smoke stripper sections associated with each source (EU3, EU13, and EU14) are calculated based on the following equation:

Equation 3 – Forming, Curing, Cooling and Smoke Stripper section PM10 (EU3PM10, EU13PM10 and EU14PM10) Emissions Monitoring Method

$$= (HoursForming,Curing,Cooling,SmokeStripper) \times (Forming,Curing,Cooling,SmokeStripperPM10)$$

Where:

HoursForming,Curing,Cooling,SmokeStripper = Each respective Forming, Curing, Cooling section and Smoke Stripper operational hours (Hours/rolling 12-month period)

Forming,Curing,Cooling,SmokeStripperPM10 = PM10 emission factor (lb PM10/hr) for each respective forming, curing, cooling and smoke stripper section, developed based on most recent stack test results



Condition 103: BART capping equation - SO₂
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR Part 249

Item 103.1:

Total annual SO₂ emissions from the BART-eligible sources: EU2 (DM1 Oxy Fuel Furnace), EU3 (DM1 Forming, Curing, Cooling and Smoke Stripper), EU12 (DM2 Oxy Fuel Furnace), EU13 (DM2 Mixing Chamber), and EU14 (DM2 Cooling Area to include Smoke Stripper) shall not exceed 249 tons per year (tpy) SO₂, calculated as a rolling, 12-month summation of emissions, and calculated on a monthly basis using the following equations:

Equation 1 – Total SO₂ Emissions Cap Monitoring Method

$$249 \text{ tpy} > \text{EU2SO}_2 + \text{EU3SO}_2 + \text{EU12SO}_2 + \text{EU13SO}_2 + \text{EU14SO}_2$$

Where:

EU2SO_2 = DM1 Oxy Fuel Furnace SO₂ Emissions (Tons/rolling 12-month period)

EU3SO_2 = DM1 Forming, Curing, Cooling, Smoke Stripper SO₂ Emissions (Tons/rolling 12-month period)

EU12SO_2 = DM2 Oxy Fuel Furnace SO₂ Emissions (Tons/rolling 12-month period)

EU13SO_2 = DM2 Mixing Chamber which comprises Forming and Curing SO₂ Emissions (Tons/rolling 12-month period)

EU14SO_2 = DM2 Cooling and Smoke Stripper SO₂ Emissions (Tons/rolling 12-month period)

The SO₂ emissions from the glass furnaces (EU2 and EU12) are calculated based on the following equation:

Equation 2 – Furnace SO₂ (EU2SO₂ and EU12SO₂) Emissions Monitoring Method

$$= (\text{NGusage} \times \text{NGEF}) + (\text{Glasspull rate} \times \text{FurnaceSO}_2)$$

Where:

NGusage = Natural gas usage of each furnace (MMscf/rolling 12-month period)

NGEF = AP-42 Natural gas emission factor for external combustion sources (lb SO₂/MMscf natural gas usage)

Glasspull rate = Glass pull rate of each furnace (Tons/rolling 12-month period)

FurnaceSO_2 = SO₂ emission factor (lb SO₂/ton glass) for SO₂ released from glass batch materials for each furnace, developed based on most recent stack test results

The SO₂ emissions from the forming, curing, cooling and smoke stripper sections associated with each source (EU3, EU13, and EU14) are calculated based on the following equation:



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Equation 3 – Forming, Curing, Cooling and Smoke Stripper section SO2 (EU3SO2, EU13SO2 and EU14SO2) Emissions Monitoring Method

$$= (N\text{Grate} \times \text{Forming,Curing,Cooling,SmokeStripperSO2})$$

Where:

NGrate = natural gas that is used by the fiberizer burners (applicable to Forming sections' SO2) or the total used by the oven zone burners, stack burners and incinerator burners (applicable to Curing, Cooling and Smoke Stripper SO2) (millions of cubic feet of natural gas per rolling 12-month period)

Forming,Curing,Cooling,SmokeStripperSO2 = SO2 emission factor for the forming, curing, cooling and smoke stripper section of each source (lb SO2 per million cubic feet of natural gas used by the source applicable burner system), developed based on most recent stack test results

Condition 104: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR Part 249

Item 104.1:

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

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00012

Emission Unit: U-00013

Emission Unit: U-00014

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 104.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall conduct stack testing, at the monitoring frequency specified below, of the emission points associated with each manufacturing line (DM-1 and DM-2) furnace and forming, curing, cooling and smoke stripper sections in order to reestablish the SO2 emissions factors used in the BART SO2 emissions capping equations specified elsewhere in this permit.

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An acceptable testing protocol must be submitted to the department at least thirty (30) days prior to conducting such testing. Emissions testing results must be reported to the department within sixty (60) days following the completion of the testing.

Reference Test Method: Method 6 (or approved equivalent)
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

Condition 105: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR Part 249

Item 105.1:

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

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00012

Emission Unit: U-00013

Emission Unit: U-00014

Regulated Contaminant(s):
CAS No: 0NY075-00-5 PM-10

Item 105.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall conduct stack testing, at the monitoring frequency specified below, of the emission points associated with each manufacturing line (DM-1 and DM-2) furnace and forming, curing, cooling and smoke stripper sections in order to reestablish the PM-10 emissions factors used in the BART PM-10 emissions capping equations specified elsewhere in this permit.

An acceptable testing protocol must be submitted to the

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department at least thirty (30) days prior to conducting such testing. Emissions testing results must be reported to the department within sixty (60) days following the completion of the testing.

Reference Test Method: Methods 201/201A and 202 (or approved equivalent)

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 106: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR Part 249

Item 106.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: U-00002

Emission Unit: U-00003

Emission Unit: U-00012

Emission Unit: U-00013

Emission Unit: U-00014

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 106.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall conduct stack testing, at the monitoring frequency specified below, of the emission points associated with each manufacturing line (DM-1 and DM-2) furnace and forming, curing, cooling and smoke stripper sections in order to reestablish the NOx emissions factors used in the BART NOx emissions capping equations specified elsewhere in this permit.

An acceptable testing protocol must be submitted to the department at least thirty (30) days prior to conducting such testing. Emissions testing results must be reported

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to the department within sixty (60) days following the completion of the testing.

Reference Test Method: Method 7E (or approved equivalent)
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2017.
Subsequent reports are due every 6 calendar month(s).

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

Condition 107: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement: 6 NYCRR 220-2.3 (a)

Item 107.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00002
Process: OX1

Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 107.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Emissions of oxides of nitrogen from the DM-1 oxyfuel melter are limited to 1.890 pounds per ton of glass.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: GLASS

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 1.890 pounds per ton

Monitoring Frequency: CONTINUOUS

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 108: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Applicable State Requirement:6 NYCRR 211.2

Item 108.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00005

Process: AA1

Item 108.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The asphalt applicator bath temperature shall be limited
and tracked as a surrogate to the visible emissions check.

Records shall be kept in accordance with Part
201-6.4(c).

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 0 degrees Fahrenheit

Upper Permit Limit: 425 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 15-MINUTE ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 109: Compliance Demonstration

Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 211.2

Item 109.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00010

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 109.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Within 180 days of permit issuance, the facility shall
submit to the Department a brief fugitive dust control
plan to address fugitives from cullet spilled on the
ground between the furnace building and cullet storage
pile.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



After the plan is approved, the facility shall comply with the plan.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 110: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 220-2.3 (a)

Item 110.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00012

Process: OX2

Regulated Contaminant(s):

CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 110.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Emissions of oxides of nitrogen from the DM-2 oxyfuel melter are limited to 2.771 pounds per ton of glass.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: GLASS

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.771 pounds per ton

Monitoring Frequency: CONTINUOUS

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).

Condition 111: Compliance Demonstration
Effective between the dates of 10/03/2016 and 10/02/2021

Applicable State Requirement:6 NYCRR 211.2

Item 111.1:

The Compliance Demonstration activity will be performed for:

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Unit: U-00015

Process: AA2

Item 111.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The asphalt applicator bath temperature shall be limited
and tracked as a surrogate to the visible emissions check.
Records shall be kept in accordance with Part
201-6.4(c).

Parameter Monitored: TEMPERATURE

Lower Permit Limit: 0 degrees Fahrenheit

Upper Permit Limit: 425 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

Averaging Method: 15-MINUTE ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2017.

Subsequent reports are due every 6 calendar month(s).