

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



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 4-0122-00004/00039
Effective Date: 05/08/2001 Expiration Date: 05/08/2006

Permit Issued To: OWENS CORNING
ONE OWENS CORNING PARKWAY
TOLEDO, OH 43659

Facility: OWENS-CORNING DELMAR PLANT
1277 FEURA BUSH ROAD
FEURA BUSH, NY 12067

Contact: DAVID A. KRENITSKY
OWENS-CORNING DELMAR PLANT
1277 FEURA BUSH ROAD
FEURA BUSH, NY 12067

Description:

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: MICHAEL HIGGINS
1150 NORTH WESCOTT RD
SCHENECTADY, NY 12306-2014

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other 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, agents, and assigns for all claims, suits, actions, damages, and costs of every name and description, arising out of or resulting from the permittee's undertaking of activities or operation and maintenance of the facility or facilities authorized by the permit in compliance or non-compliance with the terms and conditions of the permit.

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 and Modifications

Permit Modifications, Suspensions, and Revocations by the Department

Facility Level

Submission of Applications for Permit Modification or Renewal -REGION 4
HEADQUARTERS



DEC GENERAL CONDITIONS

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

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 and Modifications
Applicable State Requirement: 6NYCRR 621.13(a)

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 expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Condition 4: Permit Modifications, Suspensions, and Revocations by the Department
Applicable State Requirement: 6NYCRR 621.14

Item 4.1:

The Department reserves the right to modify, suspend, or revoke this permit. The grounds for

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modification, suspension or revocation include:

- a) the scope of the permitted activity is exceeded or a violation of any condition of the permit or provisions of the ECL and pertinent regulations is found;
- b) the permit was obtained by misrepresentation or failure to disclose relevant facts;
- c) new material information is discovered; or
- d) environmental conditions, relevant technology, or applicable law or regulation have materially changed since the permit was issued.

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

Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 4 HEADQUARTERS
Applicable State Requirement: 6NYCRR 621.5(a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 4 Headquarters
Division of Environmental Permits
1150 North Wescott Rd.
Schenectady, NY 12306-2014
(518) 357-2068



New York State Department of Environmental Conservation

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

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Authorized Activity By Standard Industrial



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- 55 Process Definition By Emission Unit
- 56 Process Permissible Emissions
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- 59 Compliance Certification (EU=U-00002)
- 60 Compliance Certification (EU=U-00002)
- 61 Compliance Certification (EU=U-00002)
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- 63 Compliance Certification (EU=U-00002)
- 64 Compliance Certification (EU=U-00002)
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- 66 Compliance Certification (EU=U-00002)
- 67 Compliance Certification (EU=U-00002)
- 68 Compliance Certification (EU=U-00002)
- 69 Compliance Certification (EU=U-00002)
- 70 Compliance Certification (EU=U-00002)
- 71 Compliance Certification (EU=U-00002)
- 72 Compliance Certification (EU=U-00002)
- 73 Compliance Certification (EU=U-00002)
- 74 Compliance Certification (EU=U-00002)
- 75 Compliance Certification (EU=U-00002,Proc=OX1,ES=DM1EP)
- 76 Compliance Certification (EU=U-00002,Proc=OX1,ES=DM1EP)
- 77 Required emission tests
- 78 Compliance Certification (EU=U-00003)
- 79 Compliance Certification (EU=U-00003)
- 80 Compliance Certification (EU=U-00003)
- 81 Compliance Certification (EU=U-00003)
- 82 Compliance Certification (EU=U-00003)
- 83 Compliance Certification (EU=U-00003)
- 84 Compliance Certification (EU=U-00003)
- 85 Compliance Certification (EU=U-00003)
- 86 Compliance Certification (EU=U-00003)
- 87 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ1SS)



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- 88 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ1SS)
- 89 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ2SS)
- 90 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ2SS)
- 91 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ5SS)
- 92 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ5SS)
- 93 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ6SS)
- 94 Compliance Certification (EU=U-00003,Proc=FZ1,ES=FZ6SS)
- 95 Compliance Certification (EU=U-00003,Proc=FZ2,ES=FZ3SS)
- 96 Compliance Certification (EU=U-00003,Proc=FZ2,ES=FZ3SS)
- 97 Compliance Certification (EU=U-00003,Proc=FZ2,ES=FZ4SS)
- 98 Compliance Certification (EU=U-00003,Proc=FZ2,ES=FZ4SS)
- 99 Required emission tests
- 100 Compliance Certification (EU=U-00003,EP=00005)
- 101 Compliance Certification (EU=U-00003,EP=00005,Proc=CO1,ES=DM1AB)
- 102 Compliance Certification (EU=U-00003,EP=00005,Proc=CO1,ES=DM1AB)
- 103 Compliance Certification (EU=U-00003,EP=00005,Proc=CO1,ES=DM1AB)
- 104 Required emission tests
- 105 Required emission tests
- 106 Compliance Certification (EU=U-00005,EP=00013,Proc=AA1)
- 107 Compliance Certification (EU=U-00005,EP=00013,Proc=AA1)
- 108 Handling, storage and disposal of volatile organic compounds
- 109 Compliance Certification (EU=U-00005,EP=00013,Proc=FG1)
- 110 Compliance Certification (EU=U-00005,EP=00013,Proc=FG1)
- 111 Compliance Certification (EU=U-00006,Proc=212,ES=REDST)
- 112 VOL storage tanks from 10000 - 20000 gallons
- 113 Compliance Certification (EU=U-00007,EP=00027,Proc=BDR,ES=BINDR)
- 114 Compliance Certification (EU=U-00007,EP=00027,Proc=BDR,ES=BINDR)
- 115 Compliance Certification (EU=U-00008)
- 116 Compliance Certification (EU=U-00009)
- 117 Compliance Certification (EU=U-00010)
- 118 Compliance Certification (EU=U-00012)
- 119 Required emission tests
- 120 Compliance Certification (EU=U-00012)
- 121 Compliance Certification (EU=U-00012)
- 122 Compliance Certification (EU=U-00012)
- 123 Compliance Certification (EU=U-00012)
- 124 Compliance Certification (EU=U-00012)
- 125 Compliance Certification (EU=U-00012)
- 126 Compliance Certification (EU=U-00012)
- 127 Compliance Certification (EU=U-00012)
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- 129 Compliance Certification (EU=U-00012)
- 130 Compliance Certification (EU=U-00012)
- 131 Compliance Certification (EU=U-00012)
- 132 Compliance Certification (EU=U-00012)
- 133 Compliance Certification (EU=U-00012)
- 134 Compliance Certification (EU=U-00012)
- 135 Compliance Certification (EU=U-00012,Proc=OX2,ES=DM2EP)



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- 136 Compliance Certification (EU=U-00012,Proc=OX2,ES=DM2EP)
- 137 Compliance Certification (EU=U-00013)
- 138 Compliance Certification (EU=U-00013)
- 139 Compliance Certification (EU=U-00013)
- 140 Compliance Certification (EU=U-00013)
- 141 Compliance Certification (EU=U-00013)
- 142 Compliance Certification (EU=U-00013)
- 143 Compliance Certification (EU=U-00013)
- 144 Compliance Certification (EU=U-00013)
- 145 Compliance Certification (EU=U-00013,EP=00017,Proc=FC2,ES=DM2AB)
- 146 Compliance Certification (EU=U-00013,EP=00017,Proc=FC2,ES=DM2AB)
- 147 Compliance Certification (EU=U-00013,EP=00017,Proc=FC2,ES=DM2AB)
- 148 Compliance Certification (EU=U-00014)
- 149 Compliance Certification (EU=U-00014)
- 150 Compliance Certification (EU=U-00014)
- 151 Compliance Certification (EU=U-00015,EP=00019,Proc=AA2)
- 152 Compliance Certification (EU=U-00015,EP=00019,Proc=AA2)
- 153 Handling, storage and disposal of volatile organic compounds
- 154 Compliance Certification (EU=U-00015,EP=00019,Proc=FG2)
- 155 Compliance Certification (EU=U-00015,EP=00019,Proc=FG2)
- 156 Compliance Certification (EU=U-00017)

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159 Compliance Certification (EU=U-00005,Proc=AA1)

160 Compliance Certification (EU=U-00015,Proc=AA2)

161 Compliance Certification (EU=U-00015,Proc=AA2)

Classification Code:

3296 - MINERAL WOOL

Permit Effective Date: 05/08/2001

Permit Expiration Date: 05/08/2006



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

Condition 1: Sealing
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 200.5

Item 1.1:

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

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

(c) Unless authorized by the commissioner, no person shall remove or alter any seal affixed to any contamination source in accordance with this section

Condition 2: Acceptable ambient air quality
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 200.6

Item 2.1:

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

Condition 3: Maintenance of equipment
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 0 6NYCRR 200.7

Item 3.1:

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.



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Condition 4: Unpermitted Emission Sources
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-1.2

Item 4.1:

If an existing emission source was subject to the permitting requirements of 6NYCRR Part 201 at the time of construction or modification, and the owner and/or operator failed to apply for a permit for such emission source then the following provisions apply:

- (a) The owner and/or operator must apply for a permit for such emission source or register the facility in accordance with the provisions of Part 201.
- (b) The emission source or facility is subject to all regulations that were applicable to it at the time of construction or modification and any subsequent requirements applicable to existing sources or facilities.

Condition 5: Unavoidable Noncompliance and Violations
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-1.4

Item 5.1:

At the discretion of the commissioner a violation of any applicable emission standard for necessary scheduled equipment maintenance, start-up/shutdown conditions and malfunctions or upsets may be excused if such violations are unavoidable. The following actions and recordkeeping and reporting requirements must be adhered to in such circumstances.

- (a) The facility owner and/or operator shall compile and maintain records of all equipment 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 commissioner's representative when requested to do so in writing or when so required by a condition of a permit or certificate issued for the corresponding air contamination source. Such reports shall describe why the violation was unavoidable and shall include the time, frequency and duration of the maintenance and/or start-up/shutdown activities and the identification of air contaminants, and the estimated emission rates. If a facility owner and/or operator is subject to continuous stack monitoring and quarterly reporting requirements, he need not submit reports for equipment maintenance or start-up/shutdown for the facility to the commissioner's representative.
- (b) In the event that emissions of air contaminants in excess of any emission standard in 6 NYCRR Chapter III Subchapter A occur due to a malfunction, the facility owner and/or operator shall report such malfunction by telephone to the commissioner's representative as soon as possible during normal working hours, but in any event not later than two working days after becoming aware that the malfunction occurred. Within 30 days thereafter, when requested in writing by the commissioner's representative, the facility owner and/or operator shall submit a written report to the commissioner's representative describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.



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(c) The Department may also require the owner and/or operator to include in reports described under (a) and (b) above an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions depending on the deviation of the malfunction and the air contaminants emitted.

(d) In the event of maintenance, start-up/shutdown or malfunction conditions which result in emissions exceeding any applicable emission standard, the facility owner and/or operator shall take appropriate action to prevent emissions which will result in contravention of any applicable ambient air quality standard. Reasonably available control technology, as determined by the commissioner, shall be applied during any maintenance, start-up/shutdown or malfunction condition subject to this paragraph.

Condition 6: Emergency Defense
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-1.5

Item 6.1:

An emergency constitutes an affirmative defense to an action brought 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 and/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;

(3) During the period of the emergency the facility owner and/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 and/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 and/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.

Condition 7: Recycling and Salvage
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-1.7



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Item 7.1:

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

Condition 8: Prohibition of Reintroduction of Collected Contaminants to the Air

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-1.8

Item 8.1:

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 9: Public Access to Recordkeeping for Title V facilities

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-1.10(b)

Item 9.1:

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 6NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.

Condition 10: Proof of Eligibility

Effective between the dates of 05/08/2001 and 05/08/2006

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

Item 10.1:

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

Condition 11: Proof of Eligibility

Effective between the dates of 05/08/2001 and 05/08/2006

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

Item 11.1:

The owner and/or operator of an emission source or unit that is listed as being trivial in 6 NYCRR Part 201 may be required to certify that it operates within the specific criteria described in 6 NYCRR Subpart



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201-3. The owner or operator of any such emission source must maintain all required records on-site for a period of five years and make them available to representatives of the Department upon request. Department representatives must be granted access to any facility which contains emission sources or units subject to 6 NYCRR Subpart 201-3, during normal operating hours, for the purpose of determining compliance with this and any other state and federal air pollution control requirements, regulations, or law.

Condition 12: Applicable Criteria, Limits, Terms, Conditions and Standards
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 12.1:

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

- i. Any reporting requirements and operations under an accidental release plan, response plan, and compliance plan as approved as of the date of the permit issuance, or
- ii. Any support documents submitted as a part of the permit application for this facility as accepted and approved as of the date of permit issuance.

Any noncompliance with the federally-enforceable portions of this permit constitutes a violation of the federal Clean Air Act and will be grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application.

Item 12.2:

Any document, including reports, required by the federally-enforceable portions of this permit shall contain a certification by the responsible official for this facility as set forth in Section 201-6.3 that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate and complete.

Condition 13: Cessation or Reduction of Permitted Activity Not a Defense
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 13.1:

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.

Condition 14: Compliance Requirements
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.



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Item 14.1:

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 the responsible official, consistent with Section 201-6.3 of Part 201.

Item 14.2:

The permittee shall comply with the approved compliance schedule for this permit if such a schedule is a part of this permit. Risk management plans must be submitted to the Administrator if required by Section 112(r) of the Clean Air Act for this facility.

Item 14.3:

Progress reports consistent with an applicable schedule of compliance must be submitted at least semiannually on a calendar year basis, or at a more frequent period if specified in the applicable requirement or by the Department elsewhere in this permit. These reports shall be submitted to the Department within 30 days after the end of a reporting period. 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 15: Federally-Enforceable Requirements
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 15.1:

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.

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Condition 16: Fees
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 16.1:

The permittee shall pay the required fees associated with this permit.

Condition 17: Monitoring, Related Recordkeeping and Reporting Requirements
Effective between the dates of 05/08/2001 and 05/08/2006

0 Applicable Federal Requirement: 6NYCRR 201-6.

Item 17.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements. Records of all monitoring data and support information shall be retained for a period of at least 5 years from the date of the monitoring sample, 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 18: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 18.1:

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 relieve the permittee from the requirement to comply with any condition contained in this permit.

The permittee 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. The permittee shall also, on request, furnish the Department with copies of records required to be kept by the permit. Where information is claimed to be confidential, the permittee may furnish such records directly to the Administrator along with a claim of confidentiality.

Condition 19: Permit Shield
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.



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Item 19.1:

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield. For those facilities for which a permit shield has been granted, 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.

Condition 20: Property Rights

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 20.1:

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

Condition 21: Reopening for Cause

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 21.1:

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is 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 the requirement is later than the date on which this 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 Part 201-6.7 and Part 621.
- ii. The Department or the Administrator determines that the permit contains a material mistake or that



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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.

Item 21.2:

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.

Item 21.3:

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.

Condition 22: Right to Inspect

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 22.1:

Upon presentation of credentials and other documents, as may be required by law, the permittee shall allow the Department or an authorized representative to perform the following:

i. Enter upon the permittee's premises where the permitted facility 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 facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit; and

iv. As authorized by the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

Condition 23: Severability

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 23.1:

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a

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challenge, the remainder of this permit shall continue to be valid.

Condition 24: Emission Unit Definition
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 24.1:

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

Emission Unit: U-00001

Emission Unit Description:

THIS EMISSION UNIT REPRESENTS THE DM1
MIXED BATCH BIN, CONTAINS EMISSION POINT
00002 AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.2:

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

Emission Unit: U-00002

Emission Unit Description:

THIS UNIT REPRESENTS THE DM1 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 A FAILURE OR REDUCED LIFE OF A
CAPITAL ASSET. BY REDUCING THE SURFACE
AREA AND THICKNESS OF THE INSULATING CRUST
OF UNMELTED BATCH SUCH ACTIONS CAN ALSO
ACTUALLY INCREASE EMISSIONS.

Building(s): 1

Item 24.3:



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

Emission Unit: U-00003

Emission Unit Description:

THIS UNIT REPRESENTS THE DM1 MIXING CHAMBER, FORMING ZONES, CURING OVEN, COOLING SECTION, STRIPPING SECTION AND THE MIST CONTROL SYSTEM FOR THE FORMING BASEMENT, WHICH CONTAINS EMISSION POINTS, 00005, 00006, 00102, 00103, 00104, 00022 AND 00105 AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.4:

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 24.5:

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

Emission Unit: U-00006

Emission Unit Description:

THIS UNIT REPRESENTS FACILITY STORAGE TANKS INCLUDING RED DYE, ASPHALT, PROCESS OIL. UREA, AMMONIA, UREA DILUTION, AND NORTH AND SOUTH RESIN TANKS. THIS UNIT CONTAINS EMISSION POINTS, 00007, 00008, 00009, 00010, 00011, 00012 00020, 00024. EMISSION POINTS 00007 AND 00008 ARE LOCATED IN BUILDING 1 AND EMISSION POINTS 00009 THROUGH 00012, 00020 AND 00024 ARE LOCATED IN BUILDING 2.

Building(s): 1

Item 24.6:

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.

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Building(s): 1

Item 24.7:

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

Emission Unit: U-00008

Emission Unit Description:

THIS UNIT REPRESENTS THE DM1 BAGGING EQUIPMENT, WHICH CONTAINS EMISSION POINTS 00030 AND 00031, AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.8:

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

Emission Unit: U-00009

Emission Unit Description:

THIS UNIT REPRESENTS THE DM1 CONDITIONING AND FOREHEARTH AREA WHICH CONTAINS EMISSION POINT 00035 AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.9:

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, 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.

Building(s): 1
3
4

Item 24.10:

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

Emission Unit: U-00011

Emission Unit Description:

THIS UNIT REPRESENTS THE DM2 MIXED BATCH

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BIN, WHICH CONTAINS EMISSION POINT 00014,
AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.11:

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

Emission Unit: U-00012

Emission Unit Description:

THIS 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 NEW,
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 A FAILURE OR REDUCED LIFE OF A
CAPITAL ASSET. BY REDUCING THE SURFACE
AREA AND THICKNESS OF THE INSULATING CRUST
OF UNMELTED BATCH SUCH ACTIONS CAN ALSO
ACTUALLY INCREASE EMISSIONS.

Building(s): 1

Item 24.12:

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

Emission Unit: U-00013

Emission Unit Description:

THIS UNIT REPRESENTS THE DM2 MIXING
CHAMBER, WHICH CONTAINS EMISSION POINT
00017, AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.13:

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

Emission Unit: U-00014

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Emission Unit Description:

THIS UNIT REPRESENTS THE DM2 COOLING AREA, COMPRISED OF DM2 SMOKE STRIPPER AND DM2 COOLING SECTION. THIS UNIT CONTAINS EMISSION POINT 00018 AND 00021, AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.14:

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

Emission Unit: U-00015

Emission Unit Description:

THIS UNIT REPRESENTS THE DM2 ASPHALT APPLICATOR AND FLEXOGRAPHIC PRINTING, WHICH CONTAINS EMISSION POINT 00019, AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.15:

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

Emission Unit: U-00016

Emission Unit Description:

THIS UNIT REPRESENTS THE DM2 BAGGING EQUIPMENT, WHICH CONTAINS EMISSION POINT 00032, AND IS LOCATED IN BUILDING 1.

Building(s): 1

Item 24.16:

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 24.17:

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

Emission Unit: U-00018

THIS UNIT REPRESENTS THE DM2 CONDITIONING AREA, WHICH CONTAINS EMISSION POINT 00036, AND IS LOCATED IN BUIDLING 1.

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Building(s): 1

Condition 26: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.5(c)(3)

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

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.

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 shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office



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and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.5(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 25: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.5(e)

Item 25.1:

The Compliance Certification activity will be performed for the Facility.

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Compliance certifications shall contain the following information:

- 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.

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.



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All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Compliance Monitoring and Enforcement (BCME) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

1150 North Westcott Road
Schenectady, NY 12306-2014

The address for the BCME is as follows:

NYSDEC
Bureau of Compliance Monitoring
and Enforcement
50 Wolf Road
Albany, NY 12233-3258

Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 27: Permit Exclusion Provisions
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.5(g)

Item 27.1:

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 currently pending or future legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant 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), and particularly any such enforcement action as may be authorized pursuant to 6 NYCRR 201-1.2 and 6 NYCRR 201-6.5(g).

The issuance of this permit by the Department and the receipt thereof by the Applicant does not



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supercede, revoke or rescind an order or modification thereof on consent or determination by the Commissioner issued heretofore by the Department or any of the terms, conditions or requirements contained in such order or modification thereof unless specifically intended by this permit.

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 the right of the Department to bring any future action, or pursue any pending action, either administrative or judicial, to required remediation, contribution for costs incurred or funds expended, for any violations, past, present or future, known or unknown, of applicable federal law, the ECL, or the rules and regulations promulgated thereunder, or conditions contained in any other licenses or permits issued to the Applicant and not addressed in this permit.

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 the right of the Department to pursue any claims for natural resource damages against the Applicant.

Condition 28: Non Applicable requirements
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.5(g)

Item 28.1:

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.

40CFR 63-KK.820

Emission Unit: U00015 Process: FG2

Reason: THIS STANDARD COVERS WID WEB FLEXOGRAPHIC PRINTING. ALTHOUGH THE FACILITY DOES USE FLEXOGRAPHIC PRINTING, IT DOES NOT QUALIFY AS WIDE WEB. IN ALL CASES THE PRINTING FACE IS LESS THAN 18 INCHES WIDE.

Condition 29: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-7.

Item 29.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

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Item 29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On an annual basis, 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 emissions 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 those threshold levels that would require compliance with an applicable requirement.

All required records must be maintained on site for a period of five years.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 30: Required emissions tests

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 30.1:

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

Condition 31: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-2.1

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April



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15th each year for emissions of the previous calendar year.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by April 15th for previous calendar year

Condition 32: Recordkeeping requirements

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-2.5

Item 32.1:

(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 33: Visible emissions limited.

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 211.3

Item 33.1:

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 34: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.4(a)

Item 34.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 34.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except as required under 201.8 of this Title and as approved in the facility's VOC BACT Evaluation Report dated August, 2000, no person shall cause or allow emissions that exceed the applicable permissible emission rate as determined from Table 2, Table 3, or Table 4 of this Part for the environmental rating issued by the commissioner.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 35: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.4(c)

Item 35.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In instances where determination or permissible emission rate using process weight is not applicable (see Table 5) and for environmental rating of B or C, no person will cause or allow emissions of solid particulates that exceed 0.050 grains of particulate per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis, except as provided in section 201.6 of this Title. For the DM-1 line, this limit is superceded by by the 40 CFR 52.21 particulate lb/hr cap for emission unit U-00003.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 36: Compliance Certification

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Facility DEC ID: 4012200004



Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.6(a)

Item 36.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

No person will cause or allow emissions having an average opacity during any six minutes of 20 percent or greater from any process emission source, except only the emission of uncombined water. Any exceedances shall be reported in accordance with Part 201-1.4.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

0 Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 37: Open Fires Prohibited at Industrial and Commercial Sites

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 215.

Item 37.1:

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Condition 38: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 38.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a QIP shall be implemented consistent with the CAM provisions of 40 CFR 64, Subpart D when the monitored ESP parameter is outside the limit(s) established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 39: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 39.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a QIP shall be implemented consistent with the CAM provisions of 40 CFR 64, Subpart D when the glass pull rate exceeds by more than 20 percent the average glass pull rate established during the performance test for more than 5 percent of the total operating time in a 6-month block reporting period.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 40: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 40.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, corrective action shall be initiated within 1 hour when any 3-hour block average of the monitored ESP parameter is outside the limit(s) established during the performance test. Corrective actions shall be completed in a timely manner according to the procedures in the operations, maintenance, and monitoring plan.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 41: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 41.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 41.2:

Compliance Certification shall include the following monitoring:



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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, each glass melting furnace shall be operated such that the glass pull rate does not exceed, by more than 20 percent, the average glass pull rate established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 42: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 42.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be completed by 63.7 and 63.1384 is completed, corrective action shall be initiated within 1 hour when the average glass pull rate of any 4-hour block period (for glass melting furnaces equipped with continuous glass pull rate monitors), or daily glass pull rate (for glass melting furnaces not so equipped), exceeds the average glass pull rate established during the performance test by greater than 20 percent. Corrective actions shall be completed in a timely manner according to the procedures in the operations, maintenance, and monitoring plan.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Condition 43: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 43.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, the ESP shall be operated such that the monitored ESP parameter is not outside the limit(s) established during the performance test for more than 10 percent of the total operating time in a 6-month block reporting period.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 44: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 44.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test



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required to be conducted by 63.7 and 63.1384 is completed, existing glass melting furnaces equipped with continuous pull rate monitors must monitor and record the glass pull rate on an hourly basis. If not so equipped, the glass pull rate must be monitored and recorded once per day.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 45: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a written operations and monitoring plan shall be prepared and submitted to the Administrator for review and approval as part of the application for a part 70 permit. The plan must include the information in Part 63.1383 (a) (1) through (3).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 46: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 46.1:

The Compliance Certification activity will be performed for the Facility.



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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a written operations and monitoring plan shall be prepared and submitted to the Administrator for review and approval as part of the application for a part 70 permit. The plan must include the information in Part 63.1383 (a) (1) through (3).

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 47: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 47.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, the product LOI and product density of each bonded wool fiberglass product manufactured shall be monitored and recorded at least once every 8 hours.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Condition 48: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 48.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, where an ESP is used to control PM emissions from a glass-melting furnace, the ESP shall be monitored according to the procedures in the operations, maintenance, and monitoring plan. The OMM plan for the ESP must contain the information in Part 63.1383(c)(2)(i) through (iv)

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 49: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1384, Subpart NNN

Item 49.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



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Facility DEC ID: 4012200004

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a performance test to demonstrate compliance with the limits in Part 63.1382 shall be conducted for each glass melting furnace in accordance with the procedures in Part 63.1384(a)(1) through (13), as applicable.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 50: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1384, Subpart NNN

Item 50.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a performance test to demonstrate compliance with the limits in Part 63.1382 shall be conducted for each rotary spin manufacturing line in accordance with the procedures in Part 63.1384(a)(1) through (13), as applicable.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 51: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1386, Subpart NNN

Item 51.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 0NY075-00-0

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Name: PARTICULATES

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, the permittee shall comply with all of the notification, recordkeeping, and reporting requirements of Part 63.1386.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 52: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1386, Subpart NNN

Item 52.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, the permittee shall comply with all of the notification, recordkeeping, and reporting requirements of Part 63.1386.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 53: Recycling and Emissions Reduction

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 82, Subpart F



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Facility DEC ID: 4012200004

Item 53.1:

The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR Part 82, Subpart F, except as provided for MVAC's in Subpart B:

- a. Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to 40 CFR Part 82.156.
- b. Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to 40 CFR Part 82.158.
- c. Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to 40 CFR Part 82.161.
- d. Persons disposing of small appliances, MVAC's, and MVAC-like appliances must comply with recordkeeping requirements pursuant to 40 CFR Part 82.166. ("MVAC-like appliance as defined at 40 CFR Part 82.152)
- e. Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to 40 CFR Part 82.156.
- f. Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to 40 CFR Part 82.166.

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

**Condition 54: Emission Point Definition By Emission Unit
Effective between the dates of 05/08/2001 and 05/08/2006**

Applicable Federal Requirement: 6NYCRR 201-6.

Item 54.1:

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

Emission Unit: U-00001

Emission Point: 00002
Height (ft.): 94 Diameter (in.): 7

Item 54.2:

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

Emission Unit: U-00002

Emission Point: 00101
Height (ft.): 10 Diameter (in.): 34



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Facility DEC ID: 4012200004

Emission Point: 00300
Height (ft.): 160 Diameter (in.): 58
NYTMN (km.): 4715.224 NYTME (km.): 594.033 Building: 1

Item 54.3:

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

Emission Unit: U-00003

Emission Point: 00005
Height (ft.): 75 Length (in.): 192 Width (in.): 36

Emission Point: 00006
Height (ft.): 60 Diameter (in.): 42

Emission Point: 00022
Height (ft.): 45 Diameter (in.): 14

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

Emission Point: 00103
Height (ft.): 105 Diameter (in.): 55

Emission Point: 00104
Height (ft.): 45 Diameter (in.): 14

Emission Point: 00105
Height (ft.): 80 Diameter (in.): 32
Building: 1

Item 54.4:

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

Emission Unit: U-00005

Emission Point: 00013
Height (ft.): 40 Diameter (in.): 18

Item 54.5:

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

Emission Unit: U-00006

Emission Point: 00007
Height (ft.): 30 Diameter (in.): 5

Emission Point: 00008



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| | |
|---|-------------------|
| Height (ft.): 30 | Diameter (in.): 5 |
| Emission Point: 00009 Height (ft.): 4 | Diameter (in.): 7 |
| Emission Point: 00010 Height (ft.): 23 | Diameter (in.): 5 |
| Emission Point: 00011 Height (ft.): 22 | Diameter (in.): 5 |
| Emission Point: 00012 Height (ft.): 22 | Diameter (in.): 5 |
| Emission Point: 00020 Height (ft.): 22 | Diameter (in.): 5 |
| Emission Point: 00024 Height (ft.): 16 | Diameter (in.): 8 |

Item 54.6:

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 |

Item 54.7:

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 |
| Emission Point: 00031 Height (ft.): 35 | Length (in.): 96 | Width (in.): 48 |

Item 54.8:

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 |

Item 54.9:



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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

Item 54.10:

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

Emission Unit: U-00012

Emission Point: 00201

Height (ft.): 10

Diameter (in.): 34

Building: 1

Item 54.11:

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

Emission Unit: U-00013

Emission Point: 00017

Height (ft.): 75

Length (in.): 216

Width (in.): 36

Item 54.12:

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.): 62

Emission Point: 00021

Height (ft.): 44

Diameter (in.): 14

Item 54.13:

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.): 18

Item 54.14:

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

Emission Unit: U-00016



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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Emission Point: 00032
Height (ft.): 35 Length (in.): 90 Width (in.): 48

Item 54.15:

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

Emission Point: 00029
Height (ft.): 55 Length (in.): 30 Width (in.): 60

Item 54.16:

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

Condition 55: Process Definition By Emission Unit
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.

Item 55.1:

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: DM1MB - Process

Item 55.2:

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

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



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: DM1OM - Process

Item 55.3:

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 DM1 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 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

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Emission Source/Control: DM1CA - Process

Emission Source/Control: DM1SS - Process

Item 55.4:

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 55.5:

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 SINCE IT IS STILL TOO HOT TO BE PACKAGED. TO REMEDY THIS SITUATION, AIR IS PASSED 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 55.6:

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

New York State Department of Environmental Conservation

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Facility DEC ID: 4012200004



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

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 55.7:

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
handed by 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

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Emission Source/Control: FZ003 - Process

Emission Source/Control: FZ004 - Process

Item 55.8:

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 handles 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 55.9:

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 DRAWS AIR THROUGH THE PACK TO STRIP OUT THE SMOKE AND POLLUTANT GASES. THIS PROCESS IS SERVED BY EPS 00102 AND 00103 DURING NORMAL OPERATION & 00104 AND 00022 DURING WEP 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

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



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

Emission Source/Control: DM1SS - Process

Item 55.10:

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:

PROCESS APPLIES A THIN COAT OF PETROLEUM
BASED ASPHALT TO PAPER FOR THE BACKING ON
FIBERGLASS INSULATION.

Emission Source/Control: DM1AA - Process

Item 55.11:

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

Emission Unit: U-00005

Process: FG1

Source Classification Code: 4-05-005-99

Process Description:

THIS PROCESS USES INK TO PRINT INFORMATION
ON THE FIBERGLASS BACKING.

Emission Source/Control: DM1FG - Process

Item 55.12:

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 RED DYE, ASPHALT,
PROCESS OIL, UREA, AMMONIA, UREA DILUTION,
AND NORTH AND SOUTH RESIN TANKS.

Emission Source/Control: AMMST - Process

Emission Source/Control: ASPST - Process

Emission Source/Control: NORST - Process

Emission Source/Control: PROST - Process

Emission Source/Control: REDST - Process

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Source/Control: SORST - Process

Emission Source/Control: URDST - Process

Emission Source/Control: UREST - Process

Item 55.13:

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 RED DYE, ASPHALT,
PROCESS OIL, UREA, AMMONIA, UREA DILUTION,
AND NORTH AND SOUTH RESIN TANKS.

Emission Source/Control: AMMST - Process

Emission Source/Control: ASPST - Process

Emission Source/Control: NORST - Process

Emission Source/Control: PROST - Process

Emission Source/Control: REDST - Process

Emission Source/Control: SORST - Process

Emission Source/Control: URDST - Process

Emission Source/Control: UREST - Process

Item 55.14:

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 USED IN THE PRODUCTION OF BINDER.
THE BINDER ROOM IS EXHAUSTED THROUGH A
CEILING FAN.

Emission Source/Control: BINDR - Process

Item 55.15:

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



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Emission Unit: U-00008

Process: BC1

Source Classification Code: 3-05-012-99

Process Description:

EIGHT COLLECTION UNITS ASSOCIATED WITH THE
FIBERGLASS INSULATION BAGGING EQUIPMENT.

Emission Source/Control: DM12C - Process

Emission Source/Control: DM16C - Process

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 SECT AND FORHEARTH OF THE HOT
END, THE AREAS SURROUNDING THE FURNACE &
THE BATCH CHARGER SYSTEM. EMISSIONS FROM
THESE 3 ACTIVITIES ORIGINATE INSIDE THE
BUILDING AND EVENTUALLY EXIT THE BUILDING
THROUGH LOUV ERS.

Emission Source/Control: DM1CN - Process

Item 55.17:

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, INKJET PRINTING, AND UNLOADING AND
MIXING OF GLASS BATCH MATERIAL

Emission Source/Control: AGCSP - Process

Emission Source/Control: DM1IJ - Process

Emission Source/Control: UGLBM - Process

Emission Source/Control: WWSYS - Process

Item 55.18:

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



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Emission Unit: U-00011

Process: MB2

Source Classification Code: 3-05-012-21

Process Description:

DM2 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 55.19:

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 DURING NORMAL OPERATING MODE AND 00201 DURING DEPENDENCY EMERGENCY SHUT DOWN, MAINTENANCE OR MALFUNCTION.

Emission Source/Control: DM2EP - Control

Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: DM2OM - Process

Item 55.20:

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:

DM2 MIXING CHAMBER. MIXING CHAMBER MIXES 2 AIR STREAMS. FIRST, IS SATURATED AIR FROM THE FIBER FORMING PROCESS THAT GOES THROUGH A DROPOUT BOX AND MOISTURE ELIMINATOR. SECOND, IS EXHAUST FROM THE CURE OVEN AFTERBURNER. THE OVEN CURES THE FIBER PACK PRIOR TO FABRICATION.

Emission Source/Control: DM2AB - Control

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



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 55.21:

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:

DM2 COOLING AREA. THIS PROCESS REPRESENTS THE OPERATION OF DM2 COOLING SECTION BY ITSELF WHILE DM2 SMOKE STRIPPER IS OUT OF SERVICE DUE TO SCHEDULED MAINTENANCE EVENTS. SECTION 201.14 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 55.22:

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



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Emission Unit: U-00014

Process: SC2

Source Classification Code: 3-05-012-06

Process Description:

DM2 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

Control Type: SINGLE CYCLONE

Emission Source/Control: DM2CA - Process

Item 55.23:

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:

DM2 ASPHALT APPLICATOR. PROCESS APPLIES A
THIN COAT OF PETROLEUM BASED ASPHALT TO
PAPER FOR THE BACKING OF FIBERGLASS
INSULATION.

Emission Source/Control: DM2AA - Process

Item 55.24:

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:

DM2 FLEXOGRAPHIC PRINTING. THIS PROCESS
USES INK TO PRINT INFORMATION ON THE

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



FIBERGLASS BACKING.

Emission Source/Control: DM2FG - Process

Item 55.25:

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:

DM2 BAGGING EQUIPMENT. EIGHT DUST
COLLECTION UNITS ASSOCIATED WITH THE
FIBERGLASS BAGGING EQUIPMENT.

Emission Source/Control: DM28C - Process

Item 55.26:

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
OPERATION.

Emission Source/Control: PC003 - Process

Emission Source/Control: PC124 - Process

Item 55.27:

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 56: Process Permissible Emissions

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 231-2.2

Item 56.1:

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

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Unit: U-00013 Process: FC2

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 12.994 pounds per hour
113,828 pounds per year

Emission Unit: U-00014 Process: CS2

CAS No: 0NY998-00-0

Name: VOC

s20 PTE(s): 1.929 pounds per hour
16,898 pounds per year

Emission Unit: U-00014 Process: SC2

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 1.929 pounds per hour
16,898 pounds per year

Condition 57: Process Permissible Emissions
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 57.1:

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-00013 Process: FC2

CAS No: 000630-08-0

Name: CARBON MONOXIDE

PTE(s): 44.53 pounds per hour
390,080 pounds per year

Emission Unit: U-00011 Process: MB2

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 0.05 grains per dscf
0.209 pounds per hour
498 pounds per year

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Emission Unit: U-00013 Process: FC2

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 0.05 grains per dscf
72.857 pounds per hour
638,228 pounds per year

Emission Unit: U-00014 Process: CS2

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 0.05 grains per dscf
12.9 pounds per hour
113,004 pounds per year

Emission Unit: U-00014 Process: SC2

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 0.05 grains per dscf
12.9 pounds per hour
113,004 pounds per year

Emission Unit: U-00016 Process: BC2

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 0.05 grains per dscf
27.77 pounds per hour
243,266 pounds per year

Emission Unit: U-00018 Process: CA2

CAS No: 0NY075-00-0

Name: PARTICULATES

PTE(s): 0.05 grains per dscf
128.57 pounds per hour
1,126,274 pounds per year

Emission Unit: U-00013 Process: FC2

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 12.994 pounds per hour
113,828 pounds per year

Emission Unit: U-00014 Process: CS2



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 1.929 pounds per hour
16,898 pounds per year

Emission Unit: U-00014 Process: SC2

CAS No: 0NY998-00-0

Name: VOC

PTE(s): 1.929 pounds per hour
16,898 pounds per year

Condition 58: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 58.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the project that involved this emission unit, future potential minus prior actual emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Cap is at 0.024 lb/hr; annual emissions also capped to the product of this limit and 8760 hours.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 59: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 59.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Niter (Na_2NO_3) content of mixed batch limited. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during the compliance sampling.

Parameter Monitored: NITRATE

Upper Limit of Monitoring: 0.1 percent by weight

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 60: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 007440-47-3

Name: CHROMIUM

Item 60.2:

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

A stack test to verify values used in this project's Air Guide-1 analysis shall be done within 180 days of start up.

Reference Test Method: CARB Method 425

Monitoring Frequency: SINGLE OCCURRENCE

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 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Oxy-fuel combustion is proposed as RACT consistent with the NOx RACT evaluation report dated May, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 62: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 231-2.2

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY998-00-0

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Name: VOC

Item 62.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, maximum Annual Potential (MAP) minus prior actual annual emissions capped to less than the 40 ton/yr Significant Source Project Threshold (SSPT) to avoid 231-2 requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, U00005, U00007, U00010, and U00012 for VOC, capped at 54.776 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 63: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 231-2.2

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 63.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Monitoring Description:

For the project that involved this emissions unit, maximum Annual Potential (MAP) minus prior actual annual emissions capped to less than the 40 ton/yr Significant Source Project Threshold (SSPT) to avoid 231-2 requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, and U00012 for NOx, capped at 220.157 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 64: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 64.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 40 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, U00005, U00007, U00010, and U00012 for VOC, capped at 54.776 ton/yr. Emissions are capped by limiting glass pulled at the DM-1



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

line.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: GLASS
Upper Limit of Monitoring: 62050 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 65: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:
CAS No: 007439-92-1
Name: LEAD

Item 65.2:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 0.6 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00009, and U00012 for lead, capped at 0.0058 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: GLASS
Upper Limit of Monitoring: 62050 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Condition 66: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 000630-08-0

Name: CARBON MONOXIDE

Item 66.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 100 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, and U00012 for CO, capped at 105.177 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 67: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 67.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 67.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 15 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emissions units U00001, U00002, U00003, U00005, U00008, U00009, U00010, U00012, and U00017 for PM-10, capped at 179.81 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 68: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 68.2:

Compliance Certification shall include the following monitoring:

Capping: Yes



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 25 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00001, U00002, U00003, U00005, U00008, U00009, U00010, U00012, and U00017 for particulate, capped at 179.81 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 69: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 69.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this n0 emissions unit, future potential minus prior actual emissions capped to less than the 40 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, and U00012 for



New York State Department of Environmental Conservation

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Facility DEC ID: 4012200004

NO_x, capped at 220.157 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: GLASS
Upper Limit of Monitoring: 62050 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 70: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 70.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

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

Item 70.2:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:
For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 40 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, U00009, and U00012 for SO₂, capped at 68.188 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: GLASS
Upper Limit of Monitoring: 62050 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Condition 71: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 007664-39-3

Name: HYDROGEN FLUORIDE

Item 71.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual fluoride emissions capped to less than the 3 ton/yr significance threshold to avoid PSD requirements. The sum of future potential hydrogen fluoride emissions from the emissions units specified in this permit, this includes emission units U00002, U00009, and U00012 for HF, capped at 0.179 ton/yr. Emissions are capped by limiting glass pulled at the DM-1 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 62050 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 72: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002



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Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 72.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Annual emissions also capped to the product of this limit and 8760 hours. A stack test to verify compliance with this limit shall be done within 180 days of start up. The stack test will include three runs each at at least two different thruput levels.

Upper Limit of Monitoring: 3.542 pounds per hour

Reference Test Method: 40CFR51, Appendix M

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 73: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 73.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the project that involved this emissions unit,



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

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emissions capped to less than the 25 ton/yr significance threshold for particulate to avoid PSD requirements. Annual emissions also capped to the product of this limit and 8760 hours. A stack test to verify compliance with this limit shall be done within 180 days of start up. The stack test will include three runs each at at least two different thruput levels (155-165 ton/day for the "high" pull rate range and 140-150 ton/day for the "low" pull rate range).

Upper Limit of Monitoring: 3.542 pounds per hour

Reference Test Method: 40CFR60 Appendix A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 74: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(a)(1), Subpart NNN

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the date the initial performance test is completed or required to be completed in accordance with 40 CFR 63.7 (December 11, 2002), whichever date is earlier, the permittee shall not discharge or cause to be discharged into the atmosphere in excess of 0.5 lb of particulate matter per ton of glass pulled.

The permittee must conduct an initial performance test in accordance with 40 CFR 63.1384 and 40 CFR 63, Subpart A, as appropriate. Test methods and procedures of 40 CFR 63.1385 shall be used, as appropriate. The permittee shall report the results of the test as part of the



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Facility DEC ID: 4012200004

notification of compliance status in accordance with 40
CFR 63, Subpart A.

Upper Limit of Monitoring: .5 pounds per ton
Reference Test Method: EPA Meth. 5
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: ARITHMETIC MEAN
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 75: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63, Subpart NNN

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002
Process: OX1 Emission Source: DM1EP

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

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 limited. The
upper limit is determined by an electronic limit in the
unit's control/alarm system. All values and ranges shown,
for all parameters shall be adjusted and/or verified with
actual readings that shall be recorded during compliance
sampling.

Parameter Monitored: CURRENT/CURRENT DRAW
Lower Limit of Monitoring: 100 milliamps
Upper Limit of Monitoring: 400 milliamps
Monitoring Frequency: PER SHIFT
Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 76: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Applicable Federal Requirement: 40CFR 63, Subpart NNN

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Process: OX1

Emission Source: DM1EP

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

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 limited. The upper limit is determined by an electronic limit in the unit's control/alarm system. All values and ranges shown, for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: VOLTAGE

Lower Limit of Monitoring: 30 kilovolts

Upper Limit of Monitoring: 70 kilovolts

Monitoring Frequency: PER SHIFT

Averaging Method: 24-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 77: Required emission tests

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 77.1:

This Condition applies to Emission Unit: U-00002 Emission Point: 00300

Item 77.2:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 78: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 78.2:

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. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during the compliance sampling.

As an alternative, the percent by weight limit can be met.

Parameter Monitored: CONCENTRATION

Upper Limit of Monitoring: 0.025 pounds per gallon

Monitoring Frequency: DAILY

Averaging Method: 7-DAY AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 79: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 79.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 79.2:

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:

Precipitators (emission sources FZEP1 and FZEP2) 3rd field secondary voltage limited. The upper limit is determined by an electronic limit in the unit's control/alarm system. All values and ranges shown, for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: VOLTAGE

Lower Limit of Monitoring: 30 kilovolts

Upper Limit of Monitoring: 70 kilovolts

Monitoring Frequency: PER SHIFT

Averaging Method: 24-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 80: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 80.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 80.2:

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. An OC Test Method will be used to for determination of this total solids value. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during the compliance sampling. As an alternative, the pounds per gallon limit may be

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New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



met.

Parameter Monitored: CONCENTRATION

Upper Limit of Monitoring: 0.75 percent by weight

Monitoring Frequency: DAILY

Averaging Method: 7-DAY AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 81: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 81.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 81.2:

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) 3rd field
secondary amperage limited. The upper limit is determined
by an electronic limit in the unit's control/alarm system.

All values and ranges shown, for all parameters shall be
adjusted and/or verified with actual readings that shall
be recorded during compliance sampling.

Parameter Monitored: CURRENT/CURRENT DRAW

Lower Limit of Monitoring: 100 milliamps

Upper Limit of Monitoring: 400 milliamps

Monitoring Frequency: PER SHIFT

Averaging Method: 24-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 82: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 82.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Annual emissions also capped to the product of this limit and 8760 hours. A stack test of emission points 00005, 00102, and 00103 to verify compliance with this limit shall be done within 180 days of start up. The stack test will include three runs each at at least two different thruput levels. 155-165 ton/day for the "high" pull rate range and 140-150 ton/day for the "low" pull rate range).

This limit is based on the total emissions from emission unit 3. Since only 3 of the five systems in the unit are to be stack tested, to verify compliance, 1.264 lb/hr must be added to the results from the 3 stacks and compared to the 23.131 limit.

Upper Limit of Monitoring: 23.131 pounds per hour

Reference Test Method: 40CFR51 Appendix M

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 83: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 83.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 25 ton/yr significance threshold for particulate to avoid PSD requirements. Annual emissions also capped to the product of this limit and 8760 hours. A stack test of emission points 00005, 00102, and 00103 to verify compliance with this limit shall be done within 180 days of start up. The stack test will include three runs each at at least two different thruput levels (155-165 ton/day for the "high" pull rate range and 140-150 ton/day for the "low" pull rate range).

n0 This limit is based on the total emissions from emission unit 3. Since only 3 of the five systems in the unit are to be stack tested, to verify compliance, 1.264 lb/hr must be added to the results from the 3 stacks and compared to the 23.131 limit.

Upper Limit of Monitoring: 23.131 pounds per hour

Reference Test Method: 40CFR60 Appendix A

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 84: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(a)(2), Subpart NNN

Item 84.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 000050-00-0

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Name: FORMALDEHYDE

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the date the initial performance test is completed or required to be completed in accordance with 40 CFR 63.7 (December 11, 2002), whichever date is earlier, the permittee shall not discharge or cause to be discharged into the atmosphere in excess of 1.2 lb of formaldehyde per ton of glass pulled.

The permittee must conduct an initial performance test in accordance with 40 CFR 63.1384 and 40 CFR 63, Subpart A, as appropriate. Test methods and procedures of 40 CFR 63.1385 shall be used, as appropriate. The permittee shall report the results of the test as part of the notification of compliance status in accordance with 40 CFR 63, Subpart A.

This limit is for the entire rotary spin manufacturing line.

Upper Limit of Monitoring: 1.2 pounds per ton

Reference Test Method: EPA Meth. 316 or 318

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 85: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 85.2:

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:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a binder formulation shall be used that does not vary from the specification and operating range established and used during the performance test. Adding to the quantity of urea and/or lignin in the binder formulation does not constitute a change in the binder formulation.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 86: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a resin in the formulation of the binder shall be used such that the free-formaldehyde content of the resin used does not exceed the free-formaldehyde range contained in the specification for the resin used during the performance test.

Monitoring Frequency: PER DELIVERY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 87: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 87.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ1SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 87.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate minimum limited. An upper limit is not necessary, because higher flows can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: MASS FLOW RATE

Lower Limit of Monitoring: 170 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 88: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ1SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 88.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Pressure drop minimum limited. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: PRESSURE CHANGE

Lower Limit of Monitoring: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 89: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ2SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 89.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Pressure drop minimum limited. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Parameter Monitored: PRESSURE CHANGE
Lower Limit of Monitoring: 4 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 90: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 90.1:

The Compliance Certification activity will be performed for:

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

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

Item 90.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate minimum limited. An upper limit is not necessary, because higher flows can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: MASS FLOW RATE
Lower Limit of Monitoring: 100 gallons per minute
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 91: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ5SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 91.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Pressure drop minimum limited. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: PRESSURE CHANGE

Lower Limit of Monitoring: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 92: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 92.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ5SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 92.2:

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:

Water flow rate minimum limited. An upper limit is not necessary, because higher flows can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: MASS FLOW RATE

Lower Limit of Monitoring: 100 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 93: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ6SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 93.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate minimum limited. An upper limit is not necessary, because higher flows can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: MASS FLOW RATE

Lower Limit of Monitoring: 170 gallons per minute

Monitoring Frequency: CONTINUOUS



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 94: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ1

Emission Source: FZ6SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 94.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

0 Pressure drop minimum limited. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: PRESSURE CHANGE

Lower Limit of Monitoring: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 95: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 95.1:

The Compliance Certification 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-00003

Process: FZ2

Emission Source: FZ3SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 95.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate minimum limited. An upper limit is not necessary, because higher flows can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: MASS FLOW RATE

Lower Limit of Monitoring: 200 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 96: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 96.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZ3SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 96.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Pressure drop minimum limited. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: PRESSURE CHANGE

Lower Limit of Monitoring: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 97: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZ4SS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 97.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Water flow rate minimum limited. An upper limit is not necessary, because higher flows can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: MASS FLOW RATE

Lower Limit of Monitoring: 200 gallons per minute

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Condition 98: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Process: FZ2

Emission Source: FZASS

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 98.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Pressure drop minimum limited. An upper limit is not necessary, because higher pressure drops can only achieve a higher particulate control efficiency. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: PRESSURE CHANGE

Lower Limit of Monitoring: 4 inches of water

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 99: Required emission tests
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 99.1:

This Condition applies to Emission Unit: U-00003 Emission Point: 00005

Item 99.2:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Condition 100: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003 Emission Point: 00005

Regulated Contaminant:

CAS No: 000630-08-0

Name: CARBON MONOXIDE

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

THE EXISTING EMISSIONS CONFIGURATION IS APPROVED AS STATE BACT CONSISTENT WITH THE BACT EVALUATION REPORT DATED JULY, 1999.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 101: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003 Emission Point: 00005

Process: CO1

Emission Source: DM1AB

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 101.2:

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

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, the incinerator shall be operated such that any 3-hour block average temperature in the fire box does not fall below the average established during the performance test.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 102: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003 Emission Point: 00005

Process: CO1 Emission Source: DM1AB

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, a monitoring device that continuously measures and records the operating temperature in the firebox of the incinerator shall be installed, calibrated, maintained, and operated.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 103: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

0

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 103.1:



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:

Emission Unit: U-00003 Emission Point: 00005
Process: CO1 Emission Source: DM1AB

Regulated Contaminant:
CAS No: 000050-00-0
Name: FORMALDEHYDE

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, each incinerator shall be inspected at least once per year according to the procedures in the OMM plan. At a minimum an inspection must include the items in Part 63.1383(g)(2)(i) through (xi).

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 104: Required emission tests

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 104.1:

This Condition applies to Emission Unit: U-00003 Emission Point: 00102

Item 104.2:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 105: Required emission tests

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 105.1:

This Condition applies to Emission Unit: U-00003 Emission Point: 00103

Item 105.2:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Condition 106: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 228.3(a)

Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00005 Emission Point: 00013
Process: AA1

Regulated Contaminant:
CAS No: 0NY998-00-0
Name: VOC

Item 106.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Coating VOC content, minus water and excluded VOC at application limited. MSDSs may be used to determine compliance. So long as the coating is unchanged, VOC content can be determined when the coating is first introduced for its initial use.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: COATING

Parameter Monitored: VOC CONTENT

Upper Limit of Monitoring: 2.9 pounds per gallon

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 107: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 228.5(a)

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00005 Emission Point: 00013

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Process: AA1

Item 107.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of the as applied coating, for each coating used at the facility, must be maintained and, upon request, be provided to the departments representative. In addition, purchase, usage and/or production records of the coating material, including solvents, must be maintained and, upon request, be submitted to the department. Records must be maintained at the facility for a period of five years.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 108: Handling, storage and disposal of volatile organic compounds

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 228.10

Item 108.1:

This Condition applies to Emission Unit: U-00005 Emission Point: 00013
Process: AA1

Item 108.2:

No owner or operator of a facility subject to 6NYCRR Part 228 shall:

- (a) use open containers to store or dispose of cloth or paper impregnated with VOC and/or solvents that are used for surface preparation, cleanup, or coating removal;
- (b) store in open containers spent or fresh VOC and/or solvents to be used for surface preparation, cleanup, or coating removal;
- (c) use VOC and/or solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize their evaporation to the atmosphere;
- (d) 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; or
- (e) use open containers to store or dispose of spent surface coatings, spent VOCs and/or solvents.



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Condition 109: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 234.3(a)

Item 109.1:

The Compliance Certification activity will be performed for:

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

Regulated Contaminant:
CAS No: 0NY998-00-0
Name: VOC

Item 109.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The process shall meet one of the control strategies in Part 234.3(a). MSDSs may be used to determine compliance. So long as the ink is unchanged, VOC content can be determined when the ink is first introduced for its initial use.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 110: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 234.4(b)(3)

Item 110.1:

The Compliance Certification activity will be performed for:

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

Regulated Contaminant:
CAS No: 0NY998-00-0
Name: VOC

Item 110.2:

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:

Purchase, usage and/or production records of inks, VOC and solvents must be maintained in a format acceptable to the commissioner's representative, and upon request, these records must be submitted to the department's representative. In addition, any other information required to determine compliance with 6NYCRR Part 234 must be provided to the commissioner's representative in a format acceptable to him or her. Records must be maintained at the facility of a period of five years.

The facility shall maintain the following records for each ink, cleaning solvent, and other VOC used in the printing process, on a monthly basis:

1. The brand and product name or code for the material.
2. The quantity of material used during the calendar month.
3. The VOC content of the material.

In addition, copies of all purchase orders, invoices, and other documents for supplies and equipment that are used to support the monthly log are to be kept on site.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (ANNIVERSARY)

Initial Report Due: 12/07/2001 for the period 05/08/2001 through 11/07/2001

Condition 111: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

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

Item 111.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00006

Process: 212

Emission Source: REDST

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 111.2:



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: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except for keeping records of storage vessel dimensions and capacity, vessels with a design capacity less than 20,000 gallons are exempt from the provisions of Subpart Kb. There are no reporting requirements.

This vessel has a capacity of 15,440 gallons.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 112: VOL storage tanks from 10000 - 20000 gallons
Effective between the dates of 05/08/2001 and 05/08/2006**

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

Item 112.1:

This Condition applies to Emission Unit: U-00006

Process: 229

Item 112.2:

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 113: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006**

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 113.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00007 Emission Point: 00027

Process: BDR Emission Source: BINDR

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 113.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test is



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

required to be conducted, a binder formulation shall be used that does not vary from the specification and operating range established and used during the performance test. Adding to the quantity of urea and/or lignin in the binder formulation does not constitute a change in the binder formulation.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 114: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 114.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00007 Emission Point: 00027
Process: BDR Emission Source: BINDR

Regulated Contaminant:
CAS No: 000050-00-0
Name: FORMALDEHYDE

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test is required to be conducted by 63.7 and 63.1384, a resin in the formulation of the binder shall be used such that the free formaldehyde content of the resin used does not exceed the free formaldehyde range contained in the specification for the resin used during the performance test.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 115: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00008

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 115.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Cap is at 5.207 lb/hr; annual emissions also capped to the product of this limit and 8760 hours.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 116: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00009

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 116.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Cap is at 0.136 lb/hr; annual emissions also capped to the product of this limit and 8760 hours.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 117: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 117.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00010

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 117.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Cap is at 0.278 lb/hr; annual emissions also capped to the product of this limit and 8760 hours.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 118: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 201-6.3(d)(10)(ii)

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 118.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 118.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Niter (Na_2NO_3) content of mixed batch limited. All values and ranges shown for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during the compliance sampling.

Parameter Monitored: NITRATE

Upper Limit of Monitoring: 0.1 percent by weight

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 119: Required emission tests

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 119.1:

This Condition applies to Emission Unit: U-00012

Item 119.2:

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 120: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 202-1.1

Item 120.1:

The Compliance Certification 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-00012

Regulated Contaminant:

CAS No: 007440-47-3

Name: CHROMIUM

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

A stack test to verify values used in this project's Air Guide-1 analysis shall be done within 180 days of start up.

Reference Test Method: CARB Method 425

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 121: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 121.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Oxy-fuel combustion is proposed as RACT consistent with the NO_x RACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 122: Compliance Certification



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 231-2.2

Item 122.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 122.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, Maximum Annual Potential (MAP) minus prior actual annual emissions capped to less than the 40 ton/yr Significant Source Project Threshold (SSPT) to avoid 231-2 requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emissions units U00002, U00003, and U00012 for NOx, capped at 220.157 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 123: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 231-2.2

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 123.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, Maximum Annual Potential (MAP) minus prior actual annual emissions capped to less than the 40 ton/yr Significant Source Project Threshold (SSPT) to avoid 231-2 requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, U00005, U00007, U00010, and U00012 for VOC, capped at 54.776 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 124: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 124.2:

Compliance Certification shall include the following monitoring:

Capping: Yes



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 25 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00001, U00002, U00003, U00005, U00008, U00009, U00010, U00012, and U00017 for particulates, capped at 179.81 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 125: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

Item 125.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 40 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003 and U00012 for



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

NOX, capped at 220.157 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: GLASS
Upper Limit of Monitoring: 58400 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 126: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:
CAS No: 0NY998-00-0
Name: VOC

Item 126.2:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:
For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 40 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00005, U00003, U00007, U00010, and U00012 for VOC, capped at 54.776 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: GLASS
Upper Limit of Monitoring: 58400 tons per year
Monitoring Frequency: MONTHLY
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Reports due by January 30th for previous calendar year

Condition 127: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 127.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

Item 127.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 40 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, U00009, and U00012 for SO₂, capped at 68.188 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 128: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 128.1:

The Compliance Certification 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-00012

Regulated Contaminant:

CAS No: 007664-39-3

Name: HYDROGEN FLUORIDE

Item 128.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual fluoride emissions capped to less than the 3 ton/yr significance threshold to avoid PSD requirements. The sum of future potential hydrogen fluoride emissions from the emissions units specified in this permit, this includes emission units U00002, U00009, and U00012 for HF, capped at 0.179 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 129: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 129.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 15 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00001, U00002, U00003, U00005, U00008, U00009, U00010, U00012, and U00017 for PM-10, capped at 179.81 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 130: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 130.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 130.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Annual emissions also capped to the product of this limit and 8760 hours. A stack test to verify compliance with this limit shall be done within 180 days of start up. The stack test will include three runs each at at least two



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

different thruput levels (152-160 ton/day for the "high" pull rate range and 125-130 ton/day for the "low" pull rate range).

Upper Limit of Monitoring: 2.224 pounds per hour
Reference Test Method: 40CFR51 Appendix M
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 131: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 131.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

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

Item 131.2:

Compliance Certification shall include the following monitoring:

Capping: Yes
Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
For the project that involved this emissions unit, emissions capped to less than the 25 ton/yr significance threshold for particulate to avoid PSD requirements. Annual emissions also capped to the product of this limit and 8760 hours. A stack test to verify compliance with this limit shall be done within 180 days of start up. The stack test will include three runs each at at least two different thruput levels (152-160 ton/day for the "high" pull rate range and 125-130 ton/day for the "low" pull rate range).

Upper Limit of Monitoring: 2.224 pounds per hour
Reference Test Method: 40CFR60 Appendix A
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Condition 132: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 132.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 007439-92-1

Name: LEAD

Item 132.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 0.6 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002 and U00012 for lead, capped at 0.0058 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 133: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 133.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Regulated Contaminant:

CAS No: 000630-08-0

Name: CARBON MONOXIDE

Item 133.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

For the project that involved this emissions unit, future potential minus prior actual emissions capped to less than the 100 ton/yr significance threshold to avoid PSD requirements. The sum of future potential emissions from the emissions units specified in this permit, this includes emission units U00002, U00003, and U00012 for CO, capped at 105.177 ton/yr. Emissions are capped by limiting glass pulled at the DM-2 line.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: GLASS

Upper Limit of Monitoring: 58400 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

Condition 134: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(a)(1), Subpart NNN

Item 134.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012

Regulated Contaminant:

CAS No: 0NY075-00-0

Name: PARTICULATES

Item 134.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

On or after the date the initial performance test is completed or required to be completed in accordance with 40 CFR 63.7 (December 11, 2002), whichever date is earlier, the permittee shall not discharge or cause to be discharged into the atmosphere in excess of 0.5 lb of particulate matter per ton of glass pulled.

The permittee must conduct an initial performance test in accordance with 40 CFR 63.1384 and 40 CFR 63, Subpart A, as appropriate. Test methods and procedures of 40 CFR 63.1385 shall be used, as appropriate. The permittee shall report the results of the test as part of the notification of compliance status in accordance with 40 CFR 63, Subpart A.

Upper Limit of Monitoring: .5 pounds per ton
Reference Test Method: EPA Meth. 5
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: ARITHMETIC MEAN
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 135: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63, Subpart NNN

Item 135.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012
Process: OX2 Emission Source: DM2EP

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

Item 135.2:

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. The upper limit is determined by an electronic limit in the unit's control/alarm system. All values and ranges shown, for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Parameter Monitored: VOLTAGE
Lower Limit of Monitoring: 30 kilovolts
Upper Limit of Monitoring: 70 kilovolts
Monitoring Frequency: PER SHIFT
Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 136: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63, Subpart NNN

Item 136.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00012
Process: OX2 Emission Source: DM2EP

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

Item 136.2:

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. The upper limit is determined by an electronic limit in the unit's control/alarm system. All values and ranges shown, for all parameters shall be adjusted and/or verified with actual readings that shall be recorded during compliance sampling.

Parameter Monitored: CURRENT/CURRENT DRAW
Lower Limit of Monitoring: 100 milliamps
Upper Limit of Monitoring: 400 milliamps
Monitoring Frequency: PER SHIFT
Averaging Method: 24-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 137: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 137.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 007664-41-7

Name: AMMONIA

Item 137.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with Owens Corning's BACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 138: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 138.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 000630-08-0

Name: CARBON MONOXIDE

Item 138.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with Owens Corning's BACT evaluation report dated July, 1999.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 139: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 139.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 139.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with Owens Corning's BACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 140: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 140.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 000630-08-0

Name: CARBON MONOXIDE

Item 140.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with the BACT evaluation report dated July, 1999.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 141: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 141.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 141.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with Owens Corning's BACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 142: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.10(c)(3)

Item 142.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 0NY210-00-0

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Name: OXIDES OF NITROGEN

Item 142.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is proposed as NO_x RACT consistent with Owens Corning's RACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 143: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.10(c)(4)(iii)

Item 143.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 0NY998-00-0

Name: VOC

Item 143.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is proposed as VOC RACT consistent with Owens Corning's RACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 144: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(a)(2), Subpart NNN

Item 144.1:

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:

Emission Unit: U-00013

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 144.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the date the initial performance test is completed or required to be completed in accordance with 40 CFR 63.7 (December 11, 2002), whichever date is earlier, the permittee shall not discharge or cause to be discharged into the atmosphere in excess of 1.2 lb of formaldehyde per ton of glass pulled.

The permittee must conduct an initial performance test in accordance with 40 CFR 63.1384 and 40 CFR 63, Subpart A, as appropriate. Test methods and procedures of 40 CFR 63.1385 shall be used, as appropriate. The permittee shall report the results of the test as part of the notification of compliance status in accordance with 40 CFR 63, Subpart A.

This limit is for the entire rotary spin manufacturing line.

Upper Limit of Monitoring: 1.2 pounds per ton

Reference Test Method: EPA Meth. 316 or 318

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 145: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(b), Subpart NNN

Item 145.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013 Emission Point: 00017

Process: FC2 Emission Source: DM2AB



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 145.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be completed by 63.7 and 63.1384 is completed, the incinerator shall be operated such that any 3-hour block average temperature in the fire box does not fall below the average established during the performance test.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 146: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 146.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013 Emission Point: 00017

Process: FC2 Emission Source: DM2AB

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 146.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required by 63.7 and 63.1384 is required to be completed, a monitoring device that continuously measures and records the operating temperature in the firebox of the incinerator shall be installed, calibrated, maintained, and operated.

Monitoring Frequency: CONTINUOUS



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 147: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1383, Subpart NNN

Item 147.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00013 Emission Point: 00017
Process: FC2 Emission Source: DM2AB

Regulated Contaminant:
CAS No: 000050-00-0
Name: FORMALDEHYDE

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

On and after the date on which the performance test required to be conducted by 63.7 and 63.1384 is completed, each incinerator shall be inspected at least once per year according to the procedures in the OMM plan. At a minimum an inspection must include the items in Part 63.1383(g)(2)(i) through (xi).

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR YEAR)
Reports due by January 30th for previous calendar year

Condition 148: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 148.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00014

Regulated Contaminant:
CAS No: 0NY998-00-0
Name: VOC

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 148.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with Owens Corning's BACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 149: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 212.5(d)

Item 149.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00014

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 149.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The existing emissions configuration is approved as State BACT consistent with Owens Corning's BACT evaluation report dated August, 2000.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 150: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 63.1382(a)(2), Subpart NNN

Item 150.1:

The Compliance Certification 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-00014

Regulated Contaminant:

CAS No: 000050-00-0

Name: FORMALDEHYDE

Item 150.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

On or after the date the initial performance test is completed or required to be completed in accordance with 40 CFR 63.7 (December 11, 2002), whichever date is earlier, the permittee shall not discharge or cause to be discharged into the atmosphere in excess of 1.2 lb of formaldehyde per ton of glass pulled.

The permittee must conduct an initial performance test in accordance with 40 CFR 63.1384 and 40 CFR 63, Subpart A, as appropriate. Test methods and procedures of 40 CFR 63.1385 shall be used, as appropriate. The permittee shall report the results of the test as part of the notification of compliance status in accordance with 40 CFR 63, Subpart A.

This limit is for the entire rotary spin manufacturing line

Upper Limit of Monitoring: 1.2 pounds per ton

Reference Test Method: EPA Meth. 316 or 318

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: ARITHMETIC MEAN

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 151: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 228.3(a)

Item 151.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00015 Emission Point: 00019

Process: AA2

Regulated Contaminant:

CAS No: 0NY998-00-0

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Name: VOC

Item 151.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Coating VOC content, minus water and excluded VOC, at application limited. MSDSs may be used to determine compliance. So long as the coating is unchanged, VOC content can be determined when the coating is first introduced for its initial use.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: COATING

Parameter Monitored: VOC CONTENT

Upper Limit of Monitoring: 2.9 pounds per gallon

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 152: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 228.5(a)

Item 152.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00015 _00019

Process: AA2

Item 152.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Certification from the coating supplier/manufacturer which verifies the parameters used to determine the actual VOC content of the as applied coating, for each coating used at the facility, must be maintained and, upon request, be provided to the departments representative. In addition, purchase, usage and/or production records of the coating material, including solvents, must be



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

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maintained and, upon request, be submitted to the department. Records must be maintained at the facility for a period of five years.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 153: Handling, storage and disposal of volatile organic compounds

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 228.10

Item 153.1:

This Condition applies to Emission Unit: U-00015 Emission Point: 00019
Process: AA2

Item 153.2:

No owner or operator of a facility subject to 6NYCRR Part 228 shall:

- (a) use open containers to store or dispose of cloth or paper impregnated with VOC and/or solvents that are used for surface preparation, cleanup, or coating removal;
- (b) store in open containers spent or fresh VOC and/or solvents to be used for surface preparation, cleanup, or coating removal;
- (c) use VOC and/or solvents to cleanup spray equipment unless equipment is used to collect the cleaning compounds and to minimize their evaporation to the atmosphere;
- (d) 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; or
- (e) use open containers to store or dispose of spent surface coatings, spent VOCs and/or solvents.

Condition 154: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 234.3(a)

Item 154.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00015 Emission Point: 00019
Process: FG2

Regulated Contaminant:

CAS No: 0NY998-00-0
Name: VOC

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



Item 154.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The process shall meet one of the control strategies in Part 234.3(a). MSDSs may be used to determine compliance. So long as the ink is unchanged, VOC content can be determined when the ink is first introduced for its initial use.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 155: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 6NYCRR 234.4(b)(3)

Item 155.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00015 Emission Point: 00019
Process: FG2

Regulated Contaminant:

CAS No: 0NY998-00-0
Name: VOC

Item 155.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Purchase, usage and/or production records of inks, VOC and solvents must be maintained in a format acceptable to the commissioner's representative, and upon request, these records must be submitted to the department's representative. In addition, any other information required to determine compliance with 6NYCRR Part 234 must be provided to the commissioner's representative in a format acceptable to him or her. Records must be maintained at the facility of a period of five years.

New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



The facility shall maintain the following records for each ink, cleaning solvent, and other VOC used in the printing process, on a monthly basis:

1. The brand and product name or code for the material.
2. The quantity of material used during the calendar month.
3. The VOC content of the material.

In addition, copies of all purchase orders, invoices, and other documents for supplies and equipment that are used to support the monthly log are to be kept on site.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (ANNIVERSARY)

Initial Report Due: 12/07/2001 for the period 05/08/2001 through 11/07/2001

Condition 156: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 156.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00017

Regulated Contaminant:

CAS No: 0NY075-00-5

Name: PM-10

Item 156.2:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the project that involved this emissions unit, emissions capped to less than the 15 ton/yr significance threshold for PM-10 to avoid PSD requirements. Cap is at 6.336 lb/hr; annual emissions also capped to the product of this limit and 8760 hours.

Monitoring Frequency: AS REQUIRED - SEE MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR YEAR)

Reports due by January 30th for previous calendar year

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Permit ID: 4-0122-00004/00039 Facility DEC ID: 4012200004



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004



STATE ONLY ENFORCEABLE CONDITIONS

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

Condition 157: General Provisions

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable State Requirement: 6NYCRR 201-5.

Item 157.1:

This section contains terms and conditions that are not federally enforceable and are not required under the Act or under any of its applicable requirements. Terms and conditions so designated are not subject to the requirements of Section 201-6.4 of Part 201.

Item 157.2:

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.

Item 157.3:

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.

Condition 158: Contaminant List

Effective between the dates of 05/08/2001 and 05/08/2006

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

Item 158.1:

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

CAS No: 0NY998-00-0
Name: VOC

CAS No: 007439-92-1
Name: LEAD

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



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

CAS No: 000050-00-0
Name: FORMALDEHYDE

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

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

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

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

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

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

Condition 159: Compliance Certification

Effective between the dates of 05/08/2001 and 05/08/2006

Applicable State Requirement: 6NYCRR 211.2

Item 159.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00005
Process: AA1

Item 159.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

MAINTAIN THE ASPHALT APPLICATOR BATH (DM
1LINE) AT A TEMP NOT TO EXCEED 425 F.
THE TEMP WILL BE MONITORED AND RECORDED.
COMPLIANCE TO BE DETERMINED BASED ON
FIFTEEN (15) MINUTE AVERAGING, EXCEPT
DURING MAINTENANCE OR CALIBRATION OF
MONITORING EQUIPMENT.

Parameter Monitored: TEMPERATURE



New York State Department of Environmental Conservation

Permit ID: 4-0122-00004/00039

Facility DEC ID: 4012200004

Lower Limit of Monitoring: 0 degrees Fahrenheit
Upper Limit of Monitoring: 425 degrees Fahrenheit
Monitoring Frequency: AS REQUIRED - SEE MONITORING
DESCRIPTION
Averaging Method: 15-MINUTE ROLLING AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 160: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable State Requirement: 6NYCRR 211.2

Item 160.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00015
Process: AA2

Item 160.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

MAINTAIN THE TEMPERATURE OF THE ASPHALT
APPLICATOR BATH ASSOCIATED WITH THE DM2
LINE AT A TEMPERATURE EQUAL TO OR LESS
THEN 425 F. THE TEMPERATURE WILL BE
MONITORED AND RECORDED. COMPLIANCE WILL
BE DETERMINED BASED ON FIFTEEN (15)
MINUTE AVERAGING.

Parameter Monitored: TEMPERATURE
Lower Limit of Monitoring: 0 degrees Fahrenheit
Upper Limit of Monitoring: 425 degrees Fahrenheit
Monitoring Frequency: CONTINUOUS
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)
Reports due 30 days after every 6 calendar months (January - June, July - December)

Condition 161: Compliance Certification
Effective between the dates of 05/08/2001 and 05/08/2006

Applicable State Requirement: 6NYCRR 211.2

Item 161.1:

The Compliance Certification 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 161.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

MAINTAIN THE ASPHALT APPLICATOR BATH
(DM1 LINE) AT A TEMP NOT TO EXCEED 425 F.
THE TEMP WILL BE MONITORED AND RECORDED.
COMPLIANCE TO BE DETERMINED BASED ON
FIFTEEN (15) MINUTE AVERAGING, EXCEPT
DURING MAINTENANCE OR CALIBRATION OF
MONITORING EQUIPMENT.

Parameter Monitored: TEMPERATURE

Lower Limit of Monitoring: 0 degrees Fahrenheit

Upper Limit of Monitoring: 425 degrees Fahrenheit

Monitoring Frequency: CONTINUOUS

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR YEAR)

Reports due 30 days after every 6 calendar months (January - June, July - December)