



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air State Facility
Permit ID: 8-4642-00011/00046
Mod 0 Effective Date: 08/11/2006 Expiration Date: No expiration date.
Mod 1 Effective Date: 10/26/2006 Expiration Date: No expiration date.
Mod 2 Effective Date: 05/15/2007 Expiration Date: No expiration date.
Mod 3 Effective Date: 09/12/2007 Expiration Date: No expiration date.
Mod 4 Effective Date: 01/07/2013 Expiration Date: No expiration date.

Permit Issued To: CORNING INC
HP-ME-02-06
CORNING, NY 14831

Contact: BLAKE D MANUEL
CORNING INC
HP-ME-02-50
CORNING, NY 14831
(607) 974-6204

Facility: CORNING INC SULLIVAN PARK
1 SCIENCE CENTER DR|END OF CO RTE 107
PAINTED POST, NY 14870

Contact: MARGARET M SAVINO
CORNING INC
SP-AR-01-1
CORNING, NY 14831
(607) 974-5148

Description:
Modification of the State Facility Permit for the Sullivan Park research and development facility, last modified September 12, 2007 to authorize a new high temperature coating process. The facility emits air contaminants from two natural gas fired 20 million BTU per hour boilers, acrylate coating processes, batch mixing and specialty glass production operations, hydrofluoric acid bath cleaning operations, fiber optic production, drying operations, process vacuum systems, three research and development continuous glass melters, one batch glass melter for research, development, and production, and generators powered by diesel fuel and natural gas.

This modified Permit includes federally enforceable greenhouse gas emission limits to restrict emissions of greenhouse gases to below the 6 NYCRR Part 201-6 (Title V)



applicability thresholds for a Major Stationary Source of 100,000 tons of CO₂ equivalents per year.

This modified Permit also includes changes to reflect equipment changes since 2007 that did not require a Permit modification, and continues to restrict potential facility emissions of remaining contaminants to below Title V Major Stationary Source applicability thresholds. Changes include burner replacements to reduce the capacity of two natural gas fired boilers from 46.7 million BTU per hour to 20 million BTU per hour each, the addition of a small research and production batch glass melter, and the inclusion of emissions from the Corning Services Support Center building.

This Permit continues to limit facility emissions of CO, SO₂, NO_x, PM, and PM-10 to below Title V applicability thresholds of 100 tons per year each; VOC to below 50 tons per year; individual HAP substances HCl, HF, Cl₂ to below 10 tons per year each; and all HAP substances combined to below 25 tons per year. It also continues to limit facility arsenic emissions to 37.6 pounds per year, and incorporates the 40CFR60 Subpart IIII and 40CFR63 Subpart ZZZZ requirements for the stationary internal combustion engines at the facility.

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: SCOTT SHEELEY
NYS DEC
6274 E AVON-LIMA RD
AVON, NY 14414

Authorized Signature: _____ Date: ___ / ___ / ___



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

- Submission of Applications for Permit Modification or Renewal
-REGION 8 HEADQUARTERS
- Submission of application for permit modification or renewal-REGION 8 HEADQUARTERS
- Submission of application for permit modification or renewal-REGION 8 HEADQUARTERS
- Submission of application for permit modification or renewal-REGION 8 HEADQUARTERS



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

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

Condition 2-1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 2-1.1:

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 2-1.2:

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 2-1.3:

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 1-1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1-1.1:

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).



SAPA 401(3).

Item 1-1.2:

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 1-1.3:

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 1-2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 1-2.1:

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 2-2: Relationship of this Permit to Other Department Orders and Determinations

Applicable State Requirement: ECL 3-0301 (2) (m)

Item 2-2.1:

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 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 1-3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 1-3.1:

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 1-3.2:

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.

Item 1-3.3:



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

Condition 2-3: Applications for permit renewals, modifications and transfers
Applicable State Requirement: 6 NYCRR 621.11

Item 2-3.1:

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 2-3.2:

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.

Item 2-3.3:

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

Condition 3: Applications for Permit Renewals and Modifications
Applicable State Requirement: 6 NYCRR 621.13

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.

Item 3.3:

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

Condition 1-4: Permit modifications, suspensions or revocations by the Department
Applicable State Requirement: 6 NYCRR 621.13

Item 1-4.1:

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

a) materially false or inaccurate statements in the permit application or supporting papers;



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

Condition 2-4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 2-4.1:

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

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

Condition 4-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4-1.1:

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

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

Condition 4: Permit Modifications, Suspensions and Revocations by the Department

Applicable State Requirement: 6 NYCRR 621.14

Item 4.1:

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



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

**** Facility Level ****

Condition 5: Submission of Applications for Permit Modification or Renewal -REGION 8 HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.5 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 8 Headquarters
Division of Environmental Permits
6274 Avon-Lima Road
Avon, NY 14414-9519
(716) 226-2466

Condition 1-5: Submission of application for permit modification or renewal-REGION 8

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 1-5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 8 Headquarters
Division of Environmental Permits
6274 Avon-Lima Road
Avon, NY 14414-9519
(716) 226-2466

Condition 2-5: Submission of application for permit modification or renewal-REGION 8

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 2-5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 8 Headquarters
Division of Environmental Permits
6274 Avon-Lima Road
Avon, NY 14414-9519



(716) 226-2466

Condition 4-2: Submission of application for permit modification or renewal-REGION 8

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 4-2.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator

Region 8 Headquarters

Division of Environmental Permits

6274 Avon-Lima Road

Avon, NY 14414-9519

(585) 226-2466

New York State Department of Environmental Conservation

Permit ID: 8-4642-00011/00046

Facility DEC ID: 8464200011



Permit Under the Environmental Conservation Law (ECL)

**ARTICLE 19: AIR POLLUTION CONTROL - AIR STATE FACILITY
PERMIT**

IDENTIFICATION INFORMATION

Permit Issued To: CORNING INC
HP-ME-02-06
CORNING, NY 14831

Facility: CORNING INC SULLIVAN PARK
1 SCIENCE CENTER DR | END OF CO RTE 107
PAINTED POST, NY 14870

Authorized Activity By Standard Industrial Classification Code:
8731 - COMMERCIAL PHYSICAL RESEARCH

Mod 0 Permit Effective Date: 08/11/2006
date.

Permit Expiration Date: No expiration

Mod 1 Permit Effective Date: 10/26/2006
date.

Permit Expiration Date: No expiration

Mod 2 Permit Effective Date: 05/15/2007
date.

Permit Expiration Date: No expiration

Mod 3 Permit Effective Date: 09/12/2007
date.

Permit Expiration Date: No expiration

Mod 4 Permit Effective Date: 01/07/2013
date.

Permit Expiration Date: No expiration



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 4-1 6 NYCRR 215.2: Open Fires - Prohibitions
- 4-2 6 NYCRR 202-1.1: Required Emissions Tests
- 4 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 5 6 NYCRR 201-7.2: Facility Permissible Emissions
- *6 6 NYCRR 201-7.2: Capping Monitoring Condition
- *7 6 NYCRR 201-7.2: Capping Monitoring Condition
- *8 6 NYCRR 201-7.2: Capping Monitoring Condition
- *9 6 NYCRR 201-7.2: Capping Monitoring Condition
- *10 6 NYCRR 201-7.2: Capping Monitoring Condition
- *11 6 NYCRR 201-7.2: Capping Monitoring Condition
- *12 6 NYCRR 201-7.2: Capping Monitoring Condition
- *13 6 NYCRR 201-7.2: Capping Monitoring Condition
- *14 6 NYCRR 201-7.2: Capping Monitoring Condition
- *15 6 NYCRR 201-7.2: Capping Monitoring Condition
- *4-3 6 NYCRR 201-7.2: Capping Monitoring Condition
- 4-4 6 NYCRR 211.1: Air pollution prohibited
- 16 6 NYCRR 212.11 (a): Sampling and Monitoring
- 17 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
- 18 6 NYCRR 225-1.8 (a): Compliance Demonstration
- 4-5 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Demonstration
- 4-6 40CFR 60.4206, NSPS Subpart IIII: Compliance Demonstration
- 4-7 40CFR 60.4207(b), NSPS Subpart IIII: Compliance Demonstration
- 4-8 40CFR 60.4209, NSPS Subpart IIII: Compliance Demonstration
- 4-9 40CFR 60.4211(a), NSPS Subpart IIII: Compliance Demonstration
- 4-10 40CFR 60.4211(c), NSPS Subpart IIII: Compliance Demonstration
- 4-11 40CFR 60.4211(f), NSPS Subpart IIII: Compliance Demonstration
- 4-12 40CFR 60.4214, NSPS Subpart IIII: Compliance Demonstration
- 4-13 40CFR 60.4218, NSPS Subpart IIII: Compliance Demonstration
- 4-14 40CFR 63.6595(a)(1), Subpart ZZZZ: Compliance Demonstration
- 4-15 40CFR 63.6603(a), Subpart ZZZZ: Compliance Demonstration
- 4-16 40CFR 63.6603(a), Subpart ZZZZ: Compliance Demonstration
- 4-17 40CFR 63.6603(a), Subpart ZZZZ: Compliance Demonstration
- 4-18 40CFR 63.6605(a), Subpart ZZZZ: Compliance Demonstration
- 4-19 40CFR 63.6605(b), Subpart ZZZZ: Compliance Demonstration
- 4-20 40CFR 63.6625(e), Subpart ZZZZ: Compliance Demonstration
- 4-21 40CFR 63.6625(f), Subpart ZZZZ: Compliance Demonstration
- 4-22 40CFR 63.6625(h), Subpart ZZZZ: Compliance Demonstration
- 4-23 40CFR 63.6625(i), Subpart ZZZZ: Compliance Demonstration
- 4-24 40CFR 63.6625(j), Subpart ZZZZ: Compliance Demonstration
- 4-25 40CFR 63.6640(a), Subpart ZZZZ: Compliance Demonstration
- 4-26 40CFR 63.6640(b), Subpart ZZZZ: Compliance Demonstration
- 4-27 40CFR 63.6640(e), Subpart ZZZZ: Compliance Demonstration
- 4-28 40CFR 63.6640(f)(1), Subpart ZZZZ: Compliance Demonstration
- 4-29 40CFR 63.6655(a), Subpart ZZZZ: Compliance Demonstration
- 4-30 40CFR 63.6655(d), Subpart ZZZZ: Compliance Demonstration
- 4-31 40CFR 63.6655(e), Subpart ZZZZ: Compliance Demonstration



- 4-32 40CFR 63.6655(f), Subpart ZZZZ: Compliance Demonstration
- 4-33 40CFR 63.6660, Subpart ZZZZ: Compliance Demonstration
- 4-34 40CFR 63.6665, Subpart ZZZZ: Compliance Demonstration

Emission Unit Level

EU=S-P0001

- 4-35 6 NYCRR 212.4 (c): Compliance Demonstration
- 4-36 6 NYCRR 212.4 (c): Compliance Demonstration
- 4-37 6 NYCRR 212.6 (a): Compliance Demonstration

EU=S-P0001,Proc=B01

- 26 6 NYCRR 227-1.3 (a): Compliance Demonstration

EU=S-P0001,Proc=GT1

- 28 6 NYCRR 227-1.3 (a): Compliance Demonstration

EU=S-P0001,Proc=GT1,ES=100GT

- *29 6 NYCRR 201-7.2: Capping Monitoring Condition

EU=S-P0001,Proc=GT1,ES=200GT

- *1-1 6 NYCRR 201-7.2: Capping Monitoring Condition

EU=S-P0002

- 4-38 6 NYCRR 212.6 (a): Compliance Demonstration
- 30 40CFR 61, NESHAP Subpart A: Compliance Demonstration
- 31 40CFR 61.165(a), NESHAP Subpart N: Compliance Demonstration
- 32 40CFR 61.165(d), NESHAP Subpart N: Compliance Demonstration

EU=S-P0002,Proc=AM2

- 2-1 6 NYCRR 212.4 (a): Compliance Demonstration
- 2-3 40CFR 61.162(b)(1), NESHAP Subpart N: Compliance Demonstration
- 35 40CFR 61.162(d), NESHAP Subpart N: General emission limits for glass melting furnaces
- 2-4 40CFR 61.164(a), NESHAP Subpart N: Exceptions to conducting emission tests
- 2-6 40CFR 61.164(b), NESHAP Subpart N: Deadlines for performing emission tests
- 36 40CFR 61.164(c), NESHAP Subpart N: Compliance Demonstration
- 37 40CFR 61.165(c), NESHAP Subpart N: Compliance Demonstration

EU=S-P0002,Proc=AM4

- 38 40CFR 61.162(b)(2), NESHAP Subpart N: Compliance Demonstration
- 39 40CFR 61.162(d), NESHAP Subpart N: General emission limits for glass melting furnaces
- 40 40CFR 61.163(a), NESHAP Subpart N: Requirement to install COMS and a CMS for temperature monitoring
- 41 40CFR 61.163(b), NESHAP Subpart N: CMS installed prior to performance tests
- 42 40CFR 61.163(c), NESHAP Subpart N: Procedures for opacity and temperature monitoring during performance test
- 43 40CFR 61.163(d), NESHAP Subpart N: Redetermination of opacity and temperature values



- 44 40CFR 61.163(e), NESHAP Subpart N: Applicability of COMS and CMS requirements in general provisions
- 45 40CFR 61.163(f), NESHAP Subpart N: Continuous operation of CMS and COMS
- 46 40CFR 61.163(g), NESHAP Subpart N: Calculation of averages
- 47 40CFR 61.163(h), NESHAP Subpart N: Approval of alternative monitoring methods
- 48 40CFR 61.164(a), NESHAP Subpart N: Exceptions to conducting emission tests
- 49 40CFR 61.164(b), NESHAP Subpart N: Deadlines for performing emission tests
- 50 40CFR 61.164(e), NESHAP Subpart N: Compliance Demonstration
- 51 40CFR 61.165(f), NESHAP Subpart N: Compliance Demonstration

EU=S-P0002,Proc=AM5,ES=AMIXR

- 4-39 6 NYCRR 212.4 (c): Compliance Demonstration

EU=S-P0002,Proc=AM5,ES=DX200

- 4-40 6 NYCRR 212.4 (c): Compliance Demonstration

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 54 ECL 19-0301: Contaminant List
- 4-41 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 56 6 NYCRR Subpart 201-5: Emission Unit Definition
- 4-42 6 NYCRR 211.2: Visible Emissions Limited
- 4-43 6 NYCRR 212.4 (a): Compliance Demonstration

Emission Unit Level

- 59 6 NYCRR Subpart 201-5: Emission Point Definition By Emission Unit
- 60 6 NYCRR Subpart 201-5: Process Definition By Emission Unit

EU=S-P0001

- 4-44 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=010

- 65 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

EU=S-P0001,Proc=AM1

- 68 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

EU=S-P0001,Proc=AM1,ES=DX100

- 4-45 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=FE1

- 3-2 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

EU=S-P0001,Proc=FE1,ES=00001

- 71 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=FE1,ES=SCBN1



72 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=FE1,ES=SCBN2

73 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=FE3

78 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

EU=S-P0001,Proc=HTC

3-4 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

EU=S-P0001,Proc=HTC,ES=00001

3-5 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=HTC,ES=SCBN1

3-6 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0001,Proc=HTC,ES=SCBN2

3-7 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0002,Proc=AM2

80 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

4-46 6 NYCRR 212.4 (a): Compliance Demonstration

4-47 6 NYCRR 212.4 (a): Compliance Demonstration

4-48 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0002,Proc=AM2,ES=BHPR1

82 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0002,Proc=AM4

83 6 NYCRR 212.4 (a): Emissions from new emission sources and/or modifications

4-49 6 NYCRR 212.4 (a): Compliance Demonstration

EU=S-P0002,Proc=AM5

4-50 6 NYCRR 212.4 (a): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Sealing - 6 NYCRR 200.5

The Commissioner may seal an air contamination source to prevent its operation if compliance with 6 NYCRR Chapter III is not met within the time provided by an order of the Commissioner issued in the case of the violation.

Sealing means labeling or tagging a source to notify any person that operation of the source is prohibited, and also includes physical means of preventing the operation of an air contamination source without resulting in destruction of any equipment associated with such source, and includes, but is not limited to, bolting, chaining or wiring shut control panels, apertures or conduits associated with such source.

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

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

Item B: Acceptable Ambient Air Quality - 6 NYCRR 200.6

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

Item C: Maintenance of Equipment - 6 NYCRR 200.7

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



required to operate such device effectively.

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

If an existing emission source was subject to the permitting requirements of 6 NYCRR 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.

Item E: Emergency Defense - 6 NYCRR 201-1.5

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.

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

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

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

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

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

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

Item I: Proof of Eligibility for Sources Defined as Trivial Activities - 6 NYCRR 201-3.3 (a)

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

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



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

Item K: Open Fires Prohibitions - 6 NYCRR 215.2

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

Item L: Permit Exclusion - ECL 19-0305

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

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

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

FEDERAL APPLICABLE REQUIREMENTS
The following conditions are federally enforceable.

Condition 4-1: Open Fires - Prohibitions



Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 215.2

Item 4-1.1:

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

Item 4-1.2

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

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

Condition 4-2: Required Emissions Tests

Effective between the dates of 01/07/2013 and Permit Expiration Date



Applicable Federal Requirement:6 NYCRR 202-1.1

Replaces Condition(s) 2

Item 4-2.1:

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

Condition 4: Recycling and Emissions Reduction
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 82, Subpart F

Item 4.1:

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

Condition 5: Facility Permissible Emissions
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 5.1:

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

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

per year	CAS No: 000630-08-0 (From Mod 4)	PTE: 199,800 pounds
	Name: CARBON MONOXIDE	
per year	CAS No: 007446-09-5 (From Mod 4)	PTE: 199,800 pounds
	Name: SULFUR DIOXIDE	
per year	CAS No: 007647-01-0 (From Mod 4)	PTE: 19,800 pounds
	Name: HYDROGEN CHLORIDE	
per year	CAS No: 007664-39-3 (From Mod 4)	PTE: 19,800 pounds
	Name: HYDROGEN FLUORIDE	
per year	CAS No: 007782-50-5 (From Mod 4)	PTE: 19,800 pounds
	Name: CHLORINE	
per year	CAS No: 0NY075-00-0 (From Mod 4)	PTE: 199,800 pounds
	Name: PARTICULATES	



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per year	CAS No: 0NY075-00-5 (From Mod 4)	PTE: 199,800 pounds
	Name: PM-10	
per year	CAS No: 0NY100-00-0 (From Mod 4)	PTE: 49,800 pounds
	Name: HAP	
per year	CAS No: 0NY210-00-0 (From Mod 4)	PTE: 199,800 pounds
	Name: OXIDES OF NITROGEN	
pounds per year	CAS No: 0NY750-00-0 (From Mod 4)	PTE: 199,998,000
	Name: CARBON DIOXIDE EQUIVALENTS	
per year	CAS No: 0NY998-00-0 (From Mod 4)	PTE: 99,800 pounds
	Name: VOC	

Condition 6: Capping Monitoring Condition
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 6.1:

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

6 NYCRR 201-6.1

Item 6.2:

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

Item 6.3:

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

Item 6.4:

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

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Item 6.5:

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

Item 6.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 6.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 99.9 tons per year of PM-10 emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide PM-10 emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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

Condition 7: Capping Monitoring Condition

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 7.1:

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

6 NYCRR 201-6.1

Item 7.2:

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



Item 7.3:

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

Item 7.4:

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

Item 7.5:

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

Item 7.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 0NY100-00-0 HAP

Item 7.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 24.9 tons per year of aggregate HAP emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide aggregate HAP emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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



Condition 8: Capping Monitoring Condition
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 8.1:

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

6 NYCRR 201-6.1

Item 8.2:

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

Item 8.3:

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

Item 8.4:

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

Item 8.5:

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

Item 8.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 8.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 99.9 tons per year of SO₂ emissions on a rolling 12-month



basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide SO₂ emissions. Emissions shall be calculated based on fuel usage, the hours of operation, and the appropriate emission factors. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2007.
Subsequent reports are due every 12 calendar month(s).

Condition 9: Capping Monitoring Condition
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 9.1:

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

6 NYCRR 201-6.1

Item 9.2:

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

Item 9.3:

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

Item 9.4:

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

Item 9.5:

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

New York State Department of Environmental Conservation

Permit ID: 8-4642-00011/00046

Facility DEC ID: 8464200011



Item 9.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007664-39-3 HYDROGEN FLUORIDE

Item 9.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 9.9 tons per year of HF emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide HF emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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

Condition 10: Capping Monitoring Condition

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 10.1:

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

6 NYCRR 201-6.1

6 NYCRR 212.10

6 NYCRR Subpart 227-2

Item 10.2:

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

Item 10.3:

The owner or operator of the permitted facility must maintain all required records on-site for a



Applicable Federal Requirement:6 NYCRR 201-7.2

Item 11.1:

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

6 NYCRR 201-6.1

Item 11.2:

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

Item 11.3:

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

Item 11.4:

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

Item 11.5:

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

Item 11.6:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 11.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 99.9 tons per year of PM emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide PM emissions.



Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2007.
Subsequent reports are due every 12 calendar month(s).

Condition 12: Capping Monitoring Condition
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 12.1:

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

6 NYCRR 201-6.1

Item 12.2:

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

Item 12.3:

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

Item 12.4:

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

Item 12.5:

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

Item 12.6:

The Compliance Demonstration activity will be performed for the Facility.

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Permit ID: 8-4642-00011/00046

Facility DEC ID: 8464200011



Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 12.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 9.9 tons per year of HCl emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide HCl emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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

Condition 13: Capping Monitoring Condition

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 13.1:

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

6 NYCRR 201-6.1

Item 13.2:

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

Item 13.3:

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

Item 13.4:

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

Item 13.5:

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

Item 13.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 13.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 99.9 tons per year of CO emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility wide CO emissions. Emissions shall be calculated based on fuel usage, the hours of operation, and the appropriate emission factors. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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

Condition 14: Capping Monitoring Condition

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 14.1:

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



6 NYCRR 201-6.1

Item 14.2:

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

Item 14.3:

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

Item 14.4:

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

Item 14.5:

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

Item 14.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007782-50-5 CHLORINE

Item 14.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 9.9 tons per year of Chlorine emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide Chlorine emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

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Monitoring Frequency: MONTHLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2007.
Subsequent reports are due every 12 calendar month(s).

Condition 15: Capping Monitoring Condition
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 201-7.2

Item 15.1:

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

6 NYCRR 201-6.1

Item 15.2:

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

Item 15.3:

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

Item 15.4:

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

Item 15.5:

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

Item 15.6:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 15.7:

Compliance Demonstration shall include the following monitoring:



Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 49.9 tons per year of VOC emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility-wide VOC emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculation and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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

Condition 4-3: Capping Monitoring Condition
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 4-3.1:

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

6 NYCRR 201-6.1

Item 4-3.2:

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

Item 4-3.3:

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

Item 4-3.4:

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



Item 4-3.5:

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

Item 4-3.6:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

Item 4-3.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to remain below the applicability threshold of 6NYCRR Part 201-6.1, the facility shall be limited to 99,999 tons per year of CO₂e emissions on a rolling 12-month basis. To verify compliance with the emission limitation, the facility shall perform calculations monthly to determine the 12-month rolling total of facility wide CO₂e emissions. Emissions shall be calculated based on material usage, the hours of operation, or other appropriate surrogate parameters. Records of emission calculations and supporting documents shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

Condition 4-4: Air pollution prohibited

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 211.1

Item 4-4.1:

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

Condition 16: Sampling and Monitoring



Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.11 (a)

Item 16.1:

The owner and/or operator of this facility, if required by the department to conduct stack testing to demonstrate compliance with 6 NYCRR Part 212, must comply with notification requirements and conduct capture efficiency and/or stack testing using acceptable procedures pursuant to 6 NYCRR Part 202.

Condition 17: Compliance Demonstration

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 225-1.2 (a) (2)

Item 17.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

No person shall use, purchase, sell, or offer for sale any distillate fuel oil which has a sulfur content greater than the limit presented below. A log of the sulfur content in oil per delivery must be maintained on site for a minimum of five years after the date of the last entry.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.5 percent reduction by weight

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 18: Compliance Demonstration

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 225-1.8 (a)

Item 18.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4206, NSPS Subpart III

Item 4-6.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-6.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of stationary CI ICE must operate and maintain the stationary CI ICE that achieve the emission standards as required in §§60.4204 and 60.4205 over the entire life of the engine.

The above requirement applies to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-7: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4207(b), NSPS Subpart III

Item 4-7.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-7.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Beginning October 1, 2010, owners and operators of stationary CI ICE subject to this subpart with a displacement of less than 30 liters per cylinder that use diesel fuel must use diesel fuel that meets the requirements of 40CFR80.510(b) for nonroad diesel fuel.

Beginning June 1, 2010, except as otherwise specifically provided in 40CFR80 Subpart I, all NR and LM diesel fuel is subject to the following per-gallon standards:

- (1) Sulfur content.
 - (i) 15 ppm maximum for NR diesel fuel.



(ii) 500 ppm maximum for LM diesel fuel.

(2) Cetane index or aromatic content, as follows:

(i) A minimum cetane index of 40; or

(ii) A maximum aromatic content of 35 volume percent.

The above requirements apply to engine GEN-PR-02.

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL CHANGE

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

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-8: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4209, NSPS Subpart IIII

Item 4-8.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-8.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary CI internal combustion engine that does not meet the standards applicable to non-emergency engines must install a non-resettable hour meter prior to startup of the engine.

The owner or operator of a stationary CI internal combustion engine equipped with a diesel particulate filter to comply with the emission standards in 60.4204 must install a backpressure monitor on the diesel particulate filter that notifies the owner or operator when the high backpressure limit of the engine is approached.

The above requirements apply to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



Condition 4-9: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4211(a), NSPS Subpart IIII

Item 4-9.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-9.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary CI internal combustion engine must comply with the emission standards specified in 40 CFR 60 Subpart IIII and must do all of the following:

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to the facility

The above requirements apply to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-10: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4211(c), NSPS Subpart IIII

Item 4-10.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-10.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of a 2007 model year and later



stationary CI internal combustion engine subject to the emission standards specified in §60.4205(b) must comply by purchasing an engine certified to the emission standards in §60.4205(b) for the same model year and maximum engine power. The engine must be installed and configured according to the manufacturer's specifications.

The above requirements apply to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-11: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4211(f), NSPS Subpart IIII

Item 4-11.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-11.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emergency stationary ICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. There is no time limit on the use of emergency stationary ICE in emergency situations. The owner or operator may petition the Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency ICE beyond 100 hours per year. Emergency stationary ICE may operate up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. For owners and operators of emergency engines, any operation

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other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as permitted in this section, is prohibited.

The above requirements apply to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-12: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4214, NSPS Subpart IIII

Item 4-12.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-12.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Starting with the model years in table 5 to Subpart IIII of Part 60, if an emergency stationary CI internal combustion engine does not meet the standards applicable to nonemergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the nonresettable hour meter. The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

If a stationary CI internal combustion engine is equipped with a diesel particulate filter, the owner or operator must keep records of any corrective action taken after the backpressure monitor has notified the owner or operator that the high backpressure limit of the engine is approached.

The above requirements apply to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-13: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 60.4218, NSPS Subpart IIII



Item 4-13.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-13.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Table 8 of Subpart III shows which parts of the general provisions in §§60.1-60.19 (Subpart A) apply to any facility that is subject to 40 CFR 60, Subpart III.

The above requirement applies to engine GEN-PR-02.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-14: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6595(a)(1), Subpart ZZZZ

Item 4-14.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-14.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) Owners or operators of an existing stationary CI RICE located at an area source of HAP emissions, must comply with the applicable emission limitations and operating limitations no later than May 3, 2013.

This requirement applies to the following engines:

GENSET-1002

GEN-AR-1

GEN-WW-02

GEN-WW-01

GEN-PR-01

FAC-01

GEN-DX-01

GEN-NC-01



(2) Owners or operators of an existing stationary SI RICE located at an area source of HAP emissions, must comply with the applicable emission limitations and operating limitations no later than October 19, 2013.

This requirement applies to the following engines:

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-15: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 4-15.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-15.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing non-emergency, non-black start 4SLB or 4SRB stationary RICE equal or less than 500 HP located at an area source of HAP emissions must comply with the following maintenance procedures:

- (1) Change oil and filter every 1,440 hours of operation or annually, whichever comes first,
- (2) Inspect spark plugs every 1,440 hours of operation or annually, whichever comes first,
- (3) Inspect all hoses and belts every 1,440 hours of operation or annually, whichever comes first, and replace as necessary.

The above requirements apply to engines:

GEN-DV-01
GEN-1014

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-16: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 4-16.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-16.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency spark ignition stationary RICE located at an area source of HAP emissions must comply with the following maintenance procedures:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first,
- (2) Inspect spark plugs every 1,000 hours of operation or annually, whichever comes first,
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The above requirements apply to engines:

GEN-FE-01
GEN-TD-01
Generator ID #5050

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-17: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 4-17.1:

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The Compliance Demonstration activity will be performed for the Facility.

Item 4-17.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency and black start compression ignition stationary RICE located at an area source of HAP emissions must comply with the following maintenance procedures:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first,
- (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first,
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The above requirements apply to engines:

GENSET-1002
GEN-AR-1
GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-18: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6605(a), Subpart ZZZZ

Item 4-18.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-18.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must be in compliance with the applicable emission and operating limitations in this subpart at all



times.

The above requirement applies to the following engines:

GENSET-100

2

GEN-AR-1

GEN-WW-02

GEN-WW-01

GEN-PR-01

FAC-01

GEN-DX-01

GEN-NC-01

GEN-FE-01

GEN-TD-01

Generator ID

#5050

GEN-DV-01

GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-19: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 63.6605(b), Subpart ZZZZ

Item 4-19.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-19.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

At all times, the facility must operate and maintain any affected source, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control



practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this subpart have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-20: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(e), Subpart ZZZZ

Item 4-20.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-20.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a maintenance plan which must

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provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-21: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(f), Subpart ZZZZ

Item 4-21.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-21.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of an existing emergency stationary RICE located at an area source of HAP emissions must install a non-resettable hour meter if one is not already installed.

The above requirement applies to the following engines:

GENSET-1002
GEN-AR-1

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GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-22: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(h), Subpart ZZZZ

Item 4-22.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-22.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes, after which time the emission standards applicable to all times other than startup in Tables 1a, 2a, 2c, and 2d to this subpart apply.

The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01



Generator ID #5050

GEN-DV-01

GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-23: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(i), Subpart ZZZZ

Item 4-23.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-23.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary compression ignition engine that is subject to the work, operation or management practices in item 4 of Table 2d of subpart ZZZZ has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2c or 2d of subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.



The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-24: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6625(j), Subpart ZZZZ

Item 4-24.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-24.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary spark ignition engine that is subject to the work, operation or management practices in items 5, 6, 7, 9, or 11 of Table 2d of subpart ZZZZ has the option of utilizing an oil analysis program in order to extend the specified oil change requirement. The oil analysis must be performed at the same frequency specified for changing the oil in Table 2d of subpart ZZZZ. The analysis program must at a minimum analyze the following three parameters: Total Acid Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Acid Number increases by more than 3.0 milligrams of potassium hydroxide (KOH) per gram from Total Acid Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator must change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or



operator must change the oil within 2 days or before commencing operation, whichever is later. The owner or operator must keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program must be part of the maintenance plan for the engine.

The above requirements apply to the following engines:

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-25: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6640(a), Subpart ZZZZ

Item 4-25.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-25.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must demonstrate continuous compliance with the applicable emission and operating limitations as follows:

- i. Operating and maintaining the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions; or
- ii. Develop and follow your own maintenance plan which must provide to the extent practicable for the maintenance and operating of the engine in a manner consistent with good air pollution control practice for minimizing emissions.



The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-26: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6640(b), Subpart ZZZZ

Item 4-26.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-26.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must report each instance in which it did not meet each emission limitation or operating limitation in Tables 1a, 1b, 2a, 2b, 2c, and 2d to this subpart that apply. These instances are deviations from the emission and operating limitations in 40 CFR 63 Subpart ZZZZ. These deviations must be reported according to the requirements in 40 CFR 63.6650. If the facility changes catalyst, it must re-establish the values of the operating parameters measured during the initial performance test. When re-establishing the values of operating parameters, the facility must also conduct a performance test to demonstrate that it is meeting the required emission limitation applicable to each stationary RICE.

The above requirements apply to the following



engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-27: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6640(e), Subpart ZZZZ

Item 4-27.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-27.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must report each instance
in which it did not meet the requirements
in Table 8 to this subpart (applicable
requirements of 40 CFR 63 Subpart A,
General Provisions) that apply.

The above requirements apply to the
following
engines:

GENSET-100
2
GEN-AR-1

GEN-WW-02



GEN-WW-01

GEN-PR-01

FAC-01

GEN-DX-01

GEN-NC-01

GEN-FE-01

GEN-TD-01

Generator ID

#5050

GEN-DV-01

GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-28: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6640(f)(1), Subpart ZZZZ

Item 4-28.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-28.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) below. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) below, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine under this subpart and will need to meet



all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(ii) The facility may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

(iii) The facility may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power.

The above requirements apply to the following engines:



GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-29: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6655(a), Subpart ZZZZ

Item 4-29.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-29.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must keep the records described in paragraphs (1) through (5).

(1) A copy of each notification and report that the owner or operator submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status that he/she submitted, according to the requirement in 40 CFR 63.10(b)(2)(xiv).

(2) Records of the occurrence and duration of each malfunction of operation (i.e., process equipment) or the air pollution control and monitoring equipment.

(3) Records of performance tests and performance evaluations as required in 40 CFR 63.10(b)(2)(viii).



The facility must keep the records required in Table 6 of this subpart to show continuous compliance with each emission or operating limitation that applies.

The above requirements apply to the following engines:

GENSET-100

2

GEN-AR-1

GEN-WW-02

GEN-WW-01

GEN-PR-01

FAC-01

GEN-DX-01

GEN-NC-01

GEN-FE-01

GEN-TD-01

Generator ID

#5050

GEN-DV-01

GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-31: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6655(e), Subpart ZZZZ

Item 4-31.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-31.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



The facility must keep records of the maintenance conducted on the stationary RICE in order to demonstrate that it operated and maintained the stationary RICE and after-treatment control device (if any) according to the maintenance plan.

The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-32: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6655(f), Subpart ZZZZ

Item 4-32.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The owner or operator must document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, the owner or operator must keep records of the notification of the emergency



situation, and the time the engine was operated as part of demand response.

The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-33: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6660, Subpart ZZZZ

Item 4-33.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-33.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Records must be in a form suitable and readily available for expeditious review according to 40 CFR 63.10(b)(1).

As specified in 40 CFR 63.10(b)(1), the owner or operator must keep each record for 5 years following the date of each occurrence, measurement, maintenance, corrective action, report, or record.

The owner or operator must keep each record readily accessible in hard copy or electronic form for at least 5 years after the date of each occurrence, measurement, maintenance, corrective action, report, or record,

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according to 40 CFR 63.10(b)(1).

The above requirements apply to the following engines:

GENSET-1002
GEN-AR-1

GEN-WW-02
GEN-WW-01
GEN-PR-01
FAC-01
GEN-DX-01
GEN-NC-01

GEN-FE-01
GEN-TD-01
Generator ID #5050

GEN-DV-01
GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-34: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:40CFR 63.6665, Subpart ZZZZ

Item 4-34.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 4-34.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Table 8 of 40 CFR 63 Subpart ZZZZ shows which parts of the General Provisions 40 CFR 63.1 through 40 CFR 63.15 apply to this facility. Facility is responsible for ensuring they comply with all General Provisions contained in Table 8.

The above requirement applya to the following engines:

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GENSET-100

2

GEN-AR-1

GEN-WW-02

GEN-WW-01

GEN-PR-01

FAC-01

GEN-DX-01

GEN-NC-01

GEN-FE-01

GEN-TD-01

Generator ID

#5050

GEN-DV-01

GEN-1014

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 4-35: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Replaces Condition(s) 21

Item 4-35.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Item 4-35.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This monitoring condition applies to Processes FE1, FE3
and ZV1.

Emissions of solid particulates are limited to less than



0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. The Department reserves the right to perform or require the performance of a Method 5 emissions evaluation at any time.

The permittee will conduct compliance verifications at the monitoring frequency stated below. These verifications include review of pertinent information relating to particulate emissions of the source, including but not limited to production rate, process material, air flow rate, control equipment parameters, visible emissions, etc. The permittee will confirm that during source operation all pertinent parameters (whether used to directly calculate particulate emission rate, or as surrogates) are within ranges that ensure compliance with the particulate emission rate.

Additionally, the permittee will investigate, in a timely manner, any instance where there is cause to believe that particulate emissions above 0.050 gr/dscf are occurring or have occurred. These instances include but are not limited to process upsets, control device malfunctions or problems, abnormal visible emissions, complaints, etc. The permittee shall determine the cause of any exceedance, make the necessary correction, and verify that the excess emissions problem has been corrected.

Records of these verifications, investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-36: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.4 (c)

Replaces Condition(s) 20

Item 4-36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001



Item 4-36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The pollution abatement devices FE100 and ZV100 shall be operated and maintained consistent with good engineering practices and in accordance with the manufacturer's recommendations. Records on malfunctions and maintenance of the pollution abatement devices shall be kept on site and made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-37: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.6 (a)

Replaces Condition(s) 3-1

Item 4-37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Item 4-37.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This monitoring condition applies to Processes 010, AM1, FE1, FE3, HTC and ZV1.

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

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any



necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

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

Monitoring Frequency: QUARTERLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 26: Compliance Demonstration

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 26.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: B01

Item 26.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



Condition 28: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 227-1.3 (a)

Item 28.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: GT1

Item 28.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall operate the installation in such a way to emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average in reference test Method 9 in Appendix A of 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 29: Capping Monitoring Condition
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 29.1:

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

6 NYCRR 201-6.1

Item 29.2:

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

Item 29.3:

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

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

Item 29.4:

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

Item 29.5:

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

Item 29.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: GT1

Emission Source: 100GT

Regulated Contaminant(s):

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

Item 29.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Hours of operation for the emergency generator (Emission Source ID 100GT) is limited to 2000 hours per year on a rolling 12-month basis. Records of the hours of operation for the emergency generator shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.

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

Condition 1-1: Capping Monitoring Condition

Effective between the dates of 10/26/2006 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 201-7.2

Item 1-1.1:

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

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6 NYCRR 201-6.1

Item 1-1.2:

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

Item 1-1.3:

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

Item 1-1.4:

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

Item 1-1.5:

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

Item 1-1.6:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: GT1

Emission Source: 200GT

Regulated Contaminant(s):

CAS No: 0NY210-00-0

OXIDES OF NITROGEN

Item 1-1.7:

Compliance Demonstration shall include the following monitoring:

Capping: Yes

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Hours of operation for the emergency generator (Emission Source ID 200GT) is limited to 1100 hours per year on a rolling 12-month basis. Records of the hours of operation for the emergency generator shall be kept on site for five years and made available to the Department upon request.

Monitoring Frequency: MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2007.



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

Condition 4-38: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR 212.6 (a)

Replaces Condition(s) 2-2

Item 4-38.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Item 4-38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This monitoring condition applies to Processes AM2, AM4 and AM5.

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

The permittee will conduct observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition,

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it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: QUARTERLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 30: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61, NESHAP Subpart A

Item 30.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Regulated Contaminant(s):

CAS No: 007440-38-2 ARSENIC

Item 30.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Processes AM2 and AM4 are subject to the applicable General Provisions of 40CFR61. The facility is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 31: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.165(a), NESHAP Subpart N

Item 31.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Regulated Contaminant(s):

CAS No: 007440-38-2 ARSENIC

Item 31.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following recordkeeping requirements apply to Process AM2 and AM4:

The facility shall maintain the following records on site for a period of at least two years and make available to the Administrator upon request:

- (1) All measurements, including continuous monitoring for measurement of opacity, and temperature of gas entering a control device;
- (2) Records of emission test data and all calculations used to produce the required reports of emission estimates to demonstrate compliance with §61.162;
- (3) All continuous monitoring system performance evaluations, including calibration checks and adjustments;
- (4) The occurrence and duration of all startups, shutdowns, and malfunctions of the furnace.
- (5) All malfunctions of the air pollution control system;
- (6) All periods during which any continuous monitoring system or monitoring device is inoperative;
- (7) All maintenance and repairs for each air pollution control system, continuous monitoring system, or monitoring device.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 32: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.165(d), NESHAP Subpart N

Item 32.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Regulated Contaminant(s):

CAS No: 007440-38-2 ARSENIC



Item 32.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following reporting requirements apply to Process AM2 and AM4:

(1) Provide the Administrator 30 days prior notice of any emission test required in §61.164 to afford the Administrator the opportunity to have an observer present; and

(2) Submit to the Administrator a written report of the result of the emission test and associated calculations required in §61.164(d), within 60 days after conducting the test.

(3) Submit to the Administrator a written report of the arsenic emission estimates calculated under §61.164(c) within 45 days after startup for the melters.

(4) Submit to the Administrator a written report of the uncontrolled arsenic emission rates determined in accordance with §61.165(c), if:

(i)The emission rate for the preceding 12-month period (or preceding 6-month period for the first 6-month determination) exceeded the applicable limit in §61.162(b)(1).

(ii)The emission rate for the forthcoming 12-month period will exceed the applicable limit in §61.162(b)(1). In this case, the facility shall also notify the Administrator of the anticipated date of the emission test to demonstrate compliance with the applicable limit in §61.162(b)(2).

(5) Ensure that the reports required in paragraph (4) are postmarked by the tenth day following the end of the 6-month reporting period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 2-1: Compliance Demonstration

Effective between the dates of 05/15/2007 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (a)

Item 2-1.1:

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Facility DEC ID: 8464200011



The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 2-1.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to comply with the requirement of 6NYCRR 212.4(a), the sum of the particulate emissions from Emission Points PRE01 and PRE02 of Process AM2 shall not exceed 0.56 pounds per hour.

Upper Permit Limit: 0.56 pounds per hour

Reference Test Method: USEPA METHOD 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 2-3: Compliance Demonstration

Effective between the dates of 05/15/2007 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.162(b)(1), NESHAP Subpart

N

Item 2-3.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM2

Regulated Contaminant(s):

CAS No: 007440-38-2 ARSENIC

Item 2-3.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to comply with the requirement of 40CFR61.162(b)(1), the facility shall limit the uncontrolled total arsenic emissions to less than 0.4 Mg per year from each of the glass melting furnaces of this process.



Applicable Federal Requirement:40CFR 61.164(b), NESHAP Subpart N

Item 2-6.1:

This Condition applies to Emission Unit: S-P0002
Process: AM2

Item 2-6.2:

Unless a waiver of emission testing is obtained, the facility shall conduct emission tests required by §61.164:

- 1) No later than 90 days after the effective date of Subpart N for a source that has an initial startup date preceding the effective date;
- 2) No later than 90 days after startup for a source that has an initial startup date after the effective date;
- 3) At such other times as may be required by the Administrator under section 114 of the Clean Air Act;
- 4) While the source is operating under such conditions as the Administrator may specify, based on representative performance of the source.

**Condition 36: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date**

Applicable Federal Requirement:40CFR 61.164(c), NESHAP Subpart N

Item 36.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002
Process: AM2

Regulated Contaminant(s):
CAS No: 007440-38-2 ARSENIC

Item 36.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To demonstrate compliance with §61.162(b)(1) when less than 1.0 Mg per year of elemental arsenic is added to any new glass melting furnace, the facility shall:

- (1) Derive a theoretical uncontrolled arsenic emission factor (T), in grams of elemental arsenic per kilogram of glass produced, based on material balance calculations for each



arsenic-containing glass type
 follows:

$$Ti = (Abi \times Wbi) + (Aci \times Wci) - Agi$$
 Where:
 Ti= the theoretical uncontrolled arsenic emission
 factor (g/kg) for
 fresh batch for
 produced for
 for each glass
 produced for each
 produced for each
 emissions
 for the
 type
 as
 estimate for the
 factor for each
 as
 type (i)

(i) produced during the 12-month period, as

each glass type (i).
 Abi = fraction by weight of elemental arsenic in the
 each glass type (i).
 Wbi = weight (g) of fresh batch melted per kg of glass
 each glass type (i).
 Aci = fraction by weight of elemental arsenic in cullet
 type (i).
 Wci = weight (g) of cullet melted per kg of glass
 glass type (i).
 Agi = weight (g) of elemental arsenic per kg glass
 glass type (i).

(2) Estimate theoretical uncontrolled arsenic
 12-month period for each arsenic-containing glass
 follows:

$$Yi = (Ti \times Gi)/1,000,000$$
 Where:
 Yi = the theoretical uncontrolled arsenic emission
 12-month period for each glass type (Mg/year).
 Ti = the theoretical uncontrolled arsenic emission
 type of glass (i) produced during the 12-month period
 calculated in paragraph (1) (g/kg).
 Gi = the quantity (kg) of each arsenic-containing glass



emissions for
calculated for Y_i
or greater
emission
through (d)(5). If
is in
calculations are

produced during the 12-month period.

(3) Estimate the total theoretical uncontrolled arsenic
the 12-month period by finding the sum of the values
in paragraph (2).

(4) If the value determined in paragraph (3) is equal to
than the applicable limit in §61.162(b)(1), conduct the
testing and calculations described in §61.162(d)(1)
the value is less than the applicable limit, the source
compliance and no emission testing or additional
required.

Monitoring Frequency: ANNUALLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 37: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 61.165(c), NESHAP Subpart N

Item 37.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002
Process: AM2

Regulated Contaminant(s):
CAS No: 007440-38-2 ARSENIC

Item 37.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall determine and record at the end of every 6 months the arsenic emission rate for the preceding and forthcoming 12-month periods. The determinations shall:

- (1) Be made by following the procedures in §61.164(c); and
- (2) Take into account changes in production rates, types

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of glass produced, and other factors that would affect the uncontrolled arsenic emission rate.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 38: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.162(b)(2), NESHAP Subpart

N

Item 38.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM4

Regulated Contaminant(s):

CAS No: 007440-38-2 ARSENIC

Item 38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner/operator of a new or modified glass melting furnace subject to the provisions of 40 CFR 61, Subpart N shall reduce total arsenic emissions from the glass melting furnace by 85% or more by conveying the emissions to a control device.

Initial compliance shall be determined using the provisions listed in §61.164(e). Continuous monitoring shall be conducted according to §61.163.

Parameter Monitored: ARSENIC

Lower Permit Limit: 85 percent

Reference Test Method: EPA Method 108

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 39: General emission limits for glass melting furnaces
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.162(d), NESHAP Subpart N

Item 39.1:

This Condition applies to Emission Unit: S-P0002

Process: AM4



Item 39.2:

At all times, including periods of startup, shutdown, and malfunction, the owner or operator of a glass melting furnace shall operate and maintain the furnace and associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions of inorganic arsenic to the atmosphere to the maximum extent practicable. Determination of whether acceptable operating and maintenance procedures are being used will be based on monitoring results, review of operating and maintenance procedures, inspection of the source, and review of other records.

Condition 40: Requirement to install COMS and a CMS for temperature monitoring

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(a), NESHAP Subpart N

Item 40.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 40.2:

A facility subject to the 85% arsenic emissions reduction in §61.162(a)(2) or (b)(2) shall install, calibrate, maintain, and operate a continuous monitoring system for the measurement of the opacity of emissions discharged into the atmosphere from the control device. The facility shall also install, calibrate, maintain, and operate a monitoring device for the continuous measurement of the temperature of the gas entering the control device.

Condition 41: CMS installed prior to performance tests

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(b), NESHAP Subpart N

Item 41.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 41.2:

All continuous monitoring systems and monitoring devices shall be installed and operational prior to performance of an emission test required by §61.164(a). Verification of operational status shall, at a minimum, consist of an evaluation of the monitoring system in accordance with the requirements and procedures contained in Performance Specification 1 of appendix B of 40 CFR 60.

Condition 42: Procedures for opacity and temperature monitoring during performance test

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(c), NESHAP Subpart N

Item 42.1:

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This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 42.2:

During the emission test required in §61.164(a), the facility shall perform the following:

- Conduct continuous opacity monitoring from the beginning of the first test run until the completion of the third test run. Process and control equipment shall be operated in a manner that will minimize opacity of emissions, subject to the Administrator's approval.
- Calculate 6-minute opacity averages from 24 or more data points equally spaced over each 6-minute period during the test runs.
- Determine, based on the 6-minute opacity averages, the opacity value corresponding to the 99% upper confidence level of a normal or log-normal (whichever the facility determines is more representative) distribution of the average opacity values.
- Conduct continuous monitoring of the temperature of the gas entering the control device from the beginning of the first test run until the completion of the third test run.
- Calculate 15-minute averages of the temperature of the gas entering the control device during each test run.

Condition 43: Redetermination of opacity and temperature values
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(d), NESHAP Subpart N

Item 43.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 43.2:

The facility may redetermine the values described in §61.163(c) during any emission test that demonstrates compliance with the emission limits in §61.162(a)(2) and (b)(2).

Condition 44: Applicability of COMS and CMS requirements in general provisions
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(e), NESHAP Subpart N

Item 44.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 44.2:

The requirements of §60.13(d) and §60.13(f) shall apply to the facility if it is subject to §61.163(a).

Condition 45: Continuous operation of CMS and COMS
Effective between the dates of 08/11/2006 and Permit Expiration Date



Applicable Federal Requirement:40CFR 61.163(f), NESHAP Subpart N

Item 45.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 45.2:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under §60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements by completing a minimum of one cycle of sampling and analyzing for each successive 10-second period and one cycle of data recording for each successive 6-minute period.

Condition 46: Calculation of averages
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(g), NESHAP Subpart N

Item 46.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 46.2:

The facility shall:

- 1) Reduce all opacity data to 6-minute averages. 6-minute averages shall be calculated from 24 or more data points equally spaced over each 6-minute period. Data recorded during periods of monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages calculated under this condition, and
- 2) Calculate 15-minute averages of the temperature of the gas entering the control device for each 15-minute operating period.

Condition 47: Approval of alternative monitoring methods
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement:40CFR 61.163(h), NESHAP Subpart N

Item 47.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 47.2:

After receipt and consideration of written application, the Administrator may approve alternative monitoring systems for the measurement of one or more process or operating parameters that is or are demonstrated to enable accurate and representative monitoring of a properly operating control device. Upon approval of an alternative monitoring system for an affected source, the Administrator will specify requirements to replace the requirements of §61.163(a)-(g) for that system.



Condition 50: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 61.164(e), NESHAP Subpart N

Item 50.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM4

Regulated Contaminant(s):

CAS No: 007440-38-2 ARSENIC

Item 50.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

To demonstrate compliance with §61.162(a)(2) or (b)(2), the facility shall:

1) Conduct emission testing to determine the percent reduction of inorganic arsenic emissions being achieved by the control device, using the following test methods and procedures:

- Method 108 in appendix B to part 61 to determine the concentration of arsenic in the gas streams entering and exiting the control device. Conduct three 60-minute test runs, each consisting of simultaneous testing of the inlet and outlet gas streams. The gas streams shall contain all the gas exhausted from the glass melting furnace.

- Method 1 of 40CFR60 for sample and velocity traverses.

- Method 2 of 40CFR60 for velocity and volumetric flowrate.

- Method 3 of 40CFR60 for gas analysis.

- For sources equipped with positive pressure fabric filters, use Section 8.0 of Method 5D to determine a suitable sampling location and procedure.

2) Calculate the percent emission reduction using the formula listed in §61.164(e)(2).

3) Determine the average percent reduction of arsenic by calculating the arithmetic mean of the results of the three runs. If it is at least 85%, the source is in compliance.

Parameter Monitored: ARSENIC

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Lower Permit Limit: 85 percent reduction by weight
Reference Test Method: Method 108 of 40 CFR
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 51: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable Federal Requirement: 40CFR 61.165(f), NESHAP Subpart N

Item 51.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002
Process: AM4

Regulated Contaminant(s):
CAS No: 007440-38-2 ARSENIC

Item 51.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is required to report the following when required to install and operate a continuous opacity monitoring system (COM) under §61.163:

1- A written report to NYSDEC of the results of the COM evaluation required under §61.163(b) within 60 days after conducting the evaluation.

2- A written report to NYSDEC every 6 months if excess opacity occurred during the preceding 6-month period. Excess opacity is any 6-minute period during which the average opacity, as measured by the COM, exceeds the opacity level determined under §61.163(c)(3) or the opacity level redetermined under §61.163(d).

3- Any semiannual report of excess opacity required above shall be postmarked by the 30th day following the end of the 6-month period and include the following:

- The magnitude of excess opacity, any conversion factor(s) used, and the date and time of commencement and completion of each occurrence of excess opacity

- Specific identification of each occurrence of excess opacity that occurs during startups, shutdowns, and malfunctions of the source



- The date and time identifying each period during which the COM was inoperative, except for zero and span checks, and the nature of the system repairs or adjustments.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-39: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 4-39.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM5

Emission Source: AMIXR

Item 4-39.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of solid particulates are limited to less than 0.050 grains of particulates per cubic foot of exhaust gas, expressed at standard conditions on a dry gas basis. The Department reserves the right to perform or require the performance of a Method 5 emissions evaluation at any time.

The permittee will conduct compliance verifications at the monitoring frequency stated below. These verifications include review of pertinent information relating to particulate emissions of the source, including but not limited to production rate, process material, air flow rate, control equipment parameters, visible emissions, etc. The permittee will confirm that during source operation all pertinent parameters (whether used to directly calculate particulate emission rate, or as surrogates) are within ranges that ensure compliance with the particulate emission rate.

Additionally, the permittee will investigate, in a timely manner, any instance where there is cause to believe that particulate emissions above 0.050 gr/dscf are occurring or have occurred. These instances include but are not limited to process upsets, control device malfunctions or problems, abnormal visible emissions, complaints, etc. The permittee shall determine the cause of any exceedance, make the necessary correction, and verify that the excess



emissions problem has been corrected.

Records of these verifications, investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 4-40: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR 212.4 (c)

Item 4-40.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM5

Emission Source: DX200

Item 4-40.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The pollution abatement device DX200 shall be operated and maintained consistent with good engineering practices and in accordance with the manufacturer's recommendations. Records on malfunctions and maintenance of the pollution abatement devices shall be kept on site and made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

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

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

Where emission source owners and/or operators keep records pursuant to compliance with the operational flexibility requirements of 6 NYCRR Subpart 201-5.4(b)(1), and/or the emission capping requirements of 6 NYCRR Subparts 201-7.2(d), 201-7.3(f), 201-7.3(g), 201-7.3(h)(5), 201-7.3(i) and 201-7.3(j), the Department will make such records available to the public upon request in accordance with 6 NYCRR Part 616 - Public Access to Records. Emission source owners and/or operators must submit the records required to comply with the request within sixty working days of written notification by the Department of receipt of the request.

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state only enforceable.



Condition 54: Contaminant List

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 54.1:

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

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

CAS No: 007440-38-2
Name: ARSENIC

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

CAS No: 007647-01-0
Name: HYDROGEN CHLORIDE

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

CAS No: 007782-50-5
Name: CHLORINE

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

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

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

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

CAS No: 0NY750-00-0
Name: CARBON DIOXIDE EQUIVALENTS

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

Condition 4-41: Unavoidable noncompliance and violations

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 201-1.4



Replaces Condition(s) 55

Item 4-41.1:

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 issued for the corresponding air contamination source except where conditions elsewhere in this permit which contain more stringent reporting and notification provisions for an applicable requirement, in which case they supercede those stated here. 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. These reporting requirements are superceded by conditions elsewhere in this permit which contain reporting and notification provisions for applicable requirements more stringent than those above.

(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.

(e) In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets.

Condition 56: Emission Unit Definition
Effective between the dates of 08/11/2006 and Permit Expiration Date



Applicable State Requirement:6 NYCRR Subpart 201-5

Item 56.1(From Mod 4):

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

Emission Unit: S-P0001

Emission Unit Description:

THIS EMISSIONS UNIT CONSISTS OF ALL NON-EXEMPT EMISSION SOURCES OPERATING AT THE CORNING INCORPORATED SULLIVAN PARK FACILITY. IN MANY INSTANCES THESE ARE SUPPORT ACTIVITIES, INFRASTRUCTURE OPERATIONS SUCH AS R&D ACTIVITIES THAT HAVE BEEN SCALED UP TO PILOT OR MANUFACTURING OPERATIONS. PROCESSES HAVE BEEN IDENTIFIED FOR EACH CATEGORICAL ACTIVITY BELOW.

Building(s): DEV
DX
FIBER
GENTRAILER
NC

Item 56.2(From Mod 4):

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

Emission Unit: S-P0002

Emission Unit Description:

THIS EMISSIONS UNIT CONSISTS OF THREE (3) CONTINUOUS GLASS MELTERS FOR RESEARCH AND DEVELOPMENT PURPOSES AND ONE (1) USED TO MELT GLASS FOR COMMERCIAL SALE.

Building(s): DV
DX
PR

Condition 4-42: Visible Emissions Limited

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 211.2

Item 4-42.1:

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 4-43: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)



Replaces Condition(s) 2-7

Item 4-43.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007440-38-2 ARSENIC

Item 4-43.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall be limited to 37.6 lbs/yr of arsenic emissions. Specifically, emission will be limited to as follows: 1) 20.5 lbs/yr for MELT1 and MELT3, including associated canopy hoods and exempt batch R&D room operations; 2) 16.5 lbs/yr for MELT2 and DX building exempt R&D equipment; 3) 0.4 lbs/yr for AR building exempt R&D equipment; and 4) 0.18 lbs/yr for the DEF15 process exempt R&D equipment. To demonstrate compliance with the emission limits, the facility shall keep records of facility-wide arsenic emissions. The following methods shall be used to calculate arsenic emissions from the affected sources:

For MELT1, MELT2 and MELT3:

(1) Derive a theoretical uncontrolled arsenic emission factor (T), in grams of elemental arsenic per kilogram of glass produced, based on material balance calculations for each arsenic-containing glass type (i) produced during the 12-month period, as follows:

$$T_i = (A_{bi} \times W_{bi}) + (A_{ci} \times W_{ci}) - A_{gi}$$

Where:

T_i = the theoretical uncontrolled arsenic emission factor (g/kg) for each glass type (i).

A_{bi} = fraction by weight of elemental arsenic in the fresh batch for each glass type (i).

W_{bi} = weight (g) of fresh batch melted per kg of glass produced for each glass type (i).

A_{ci} = fraction by weight of elemental arsenic in cullet for each glass type (i).

W_{ci} = weight (g) of cullet melted per kg of glass produced for each glass type (i).

A_{gi} = weight (g) of elemental arsenic per kg glass produced for each glass type (i).

(2) Conduct emission testing within 30-days of start-up using arsenic as a raw material to determine the actual controlled arsenic emission rate during production of the arsenic-containing glass type with the highest theoretical



uncontrolled arsenic emissions as calculated under paragraph (1).

(3) Determine the actual controlled arsenic emission factor (Rca) in grams of elemental arsenic per kilogram of glass produced, as follows:

$$Rca = Eca / P$$

Where:

Rca = the actual controlled arsenic emission factor (g/kg).

Eca = the actual controlled arsenic emission rate (g/h) from paragraph (2).

P = the rate of glass production (kg/h), determined by dividing the weight (kg) of glass pulled from the furnace during the emission test by the number of hours (h) taken to perform the test under paragraph (2).

(4) Calculate a correction factor to relate the theoretical uncontrolled arsenic emission factor and the actual controlled arsenic emission factor as follows:

$$F = Rca / Ti$$

Where:

F = the correction factor

Rca = the actual controlled arsenic emission factor (g/kg) determined in paragraph (3)

Ti = the theoretical uncontrolled arsenic emission factor (g/kg) determined in paragraph (1) for the same glass type for which Rca was determined.

(5) Determine the controlled arsenic emission rate for the 12-month period for each arsenic-containing glass type as follows:

$$Yci = (Ti \times F \times Gi) / 1,000,000$$

Where:

Yci = the controlled arsenic emission rate for the 12-month period for each arsenic-containing glass type (Mg/year).

Ti = the theoretical uncontrolled arsenic emission factor for each type of glass (i) produced during the 12-month period as calculated in paragraph (1).

Gi = the quantity (kg) of each arsenic-containing glass type (i) produced during the 12-month period.

(6) Calculate the total controlled arsenic emissions for the 12-month period by finding the sum of the values calculated for Yci in paragraph (5).



For exempt R&D equipment:

The arsenic emissions from exempt R&D equipment may be calculated in accordance with the method specified in 40CFR61.164(c)(1) through (c)(3) except:

(1) An assumed arsenic retention rate of 70% is applied when data is not available, on actual retention rate, for calculating Agi.

(2) A 75% removal efficiency would be applied to Ti if an abatement device is utilized.

Records on emission calculations and supporting information such as raw material usage, production rate, arsenic retention rate, and emission test data shall be kept on site for two years and made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2013.

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

**** Emission Unit Level ****

Condition 59: Emission Point Definition By Emission Unit Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 59.1(From Mod 4):

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

Emission Unit: S-P0001

Emission Point: 00D12

Height (ft.): 95 Diameter (in.): 36
NYTMN (km.): 4667.521 NYTME (km.): 324.03 Building: DEV

Emission Point: 00D13

Height (ft.): 95 Diameter (in.): 36
NYTMN (km.): 4667.521 NYTME (km.): 324.03 Building: DEV

Emission Point: DX001

Height (ft.): 94 Diameter (in.): 72
NYTMN (km.): 4669.619 NYTME (km.): 324.384

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Emission Point: DX002
Height (ft.): 94 Diameter (in.): 72
NYTMN (km.): 4669.619 NYTME (km.): 324.384

Emission Point: DX003
Height (ft.): 84 Diameter (in.): 72
NYTMN (km.): 4669.619 NYTME (km.): 324.384

Emission Point: FE001
Height (ft.): 95 Diameter (in.): 4
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: FIBER

Emission Point: GT001
Height (ft.): 13 Diameter (in.): 8
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: GENTRAILER

Emission Point: GT002
Height (ft.): 41 Diameter (in.): 42
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: NC

Emission Point: S1734
Height (ft.): 95 Diameter (in.): 24
NYTMN (km.): 4667.521 NYTME (km.): 324.03 Building: FIBER

Emission Point: S1735
Height (ft.): 95 Length (in.): 10 Width (in.): 10
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: FIBER

Emission Point: S1736
Height (ft.): 95 Length (in.): 10 Width (in.): 10
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: FIBER

Emission Point: S1737
Height (ft.): 95 Length (in.): 10 Width (in.): 10
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: FIBER

Emission Point: S1738
Height (ft.): 95 Length (in.): 10 Width (in.): 10
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: FIBER

Emission Point: ZV001
Height (ft.): 19 Length (in.): 16 Width (in.): 16
NYTMN (km.): 4669.619 NYTME (km.): 324.384

Item 59.2(From Mod 4):

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

Emission Unit: S-P0002

Emission Point: DX004
Height (ft.): 94 Diameter (in.): 28
NYTMN (km.): 4669.619 NYTME (km.): 324.384

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Emission Point: DX005
Height (ft.): 94 Diameter (in.): 28
NYTMN (km.): 4669.619 NYTME (km.): 324.384

Emission Point: DX006
Height (ft.): 94 Diameter (in.): 23
NYTMN (km.): 4669.619 NYTME (km.): 324.384

Emission Point: PRE01
Height (ft.): 67 Diameter (in.): 10
NYTMN (km.): 4669.619 NYTME (km.): 324.384 Building: PR

Emission Point: PRE02
Height (ft.): 67 Diameter (in.): 10
NYTMN (km.): 4669.619 NYTME (km.): 324.384

Condition 60: Process Definition By Emission Unit
Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR Subpart 201-5

Item 60.1(From Mod 4):

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

Emission Unit: S-P0001

Process: 010

Process Description:

THIS PROCESS GROUP CONSISTS OF SEVERAL ACRYLATE AND HIGH TEMPERATURE COATING UNITS. THIS PROCESS ALSO CONSISTS OF A METHYLENE CHLORIDE STILL THAT HAS ONLY FUGITIVE EMISSIONS. THE STILL IS USED FOR CLEANING ACRYLATE COATINGS FROM FIBERS. THIS IS INCLUDED WITHIN THE PERMIT APPLICATION IN THE EVENT THAT TRACE EMISSIONS COULD BE DETECTED. THIS EQUIPMENT MAY ALSO BE USED AS EXEMPT R&D EQUIPMENT. THE ACRYLATE AND HIGH TEMPERATURE COATING UNITS (ODRAW) AND STILL MAY BE LOCATED IN EITHER THE FE OR DV BUILDINGS.

Emission Source/Control: ACFS1 - Control

Control Type: ACTIVATED CARBON ADSORPTION

Emission Source/Control: ODRAW - Process

Emission Source/Control: STILL - Process

Item 60.2(From Mod 4):

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

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Emission Unit: S-P0001

Process: AM1

Process Description:

THIS PROCESS IS THE CLEANING OF CRUCIBLES
THROUGH SUBMERSION WITHIN A HYDROFLUORIC
ACID BATH.

Emission Source/Control: DX100 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 001DX - Process

Emission Source/Control: 002DX - Process

Item 60.3(From Mod 4):

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

Emission Unit: S-P0001

Process: B01

Source Classification Code: 1-02-006-02

Process Description: TWO 20 MMBTU/HR BOILERS FIRING NATURAL GAS.

Emission Source/Control: B0001 - Combustion

Design Capacity: 20 million Btu per hour

Emission Source/Control: B0002 - Combustion

Design Capacity: 20 million Btu per hour

Item 60.4(From Mod 4):

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

Emission Unit: S-P0001

Process: FE1

Process Description:

THIS PROCESS CONSISTS OF OPTICAL WAVEGUIDE
LAYDOWN AND GLASS DRYING OPERATIONS. THIS
PROCESS REPRESENTS CURRENT ACTIVITIES AT
THE FACILITY. THIS EQUIPMENT MAY ALSO BE
USED IN AN EXEMPT R&D MODE.

Emission Source/Control: 00001 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SCBN1 - Control

Control Type: WET SCRUBBER

Emission Source/Control: SCBN2 - Control

Control Type: WET SCRUBBER

Emission Source/Control: GDOP1 - Process

Emission Source/Control: OWGL1 - Process



Item 60.5(From Mod 4):

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

Emission Unit: S-P0001

Process: FE3

Process Description:

THIS PROCESS IS THE VACUUMING OF SOOT FROM
THE MANUFACTURING AREA IN THE FE BUILDING.

Emission Source/Control: FE100 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 001FE - Process

Item 60.6(From Mod 4):

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

Emission Unit: S-P0001

Process: GT1

Process Description:

This process consists of two emergency generators that
may operate greater than 500 hours per year.

Emission Source/Control: 100GT - Combustion

Emission Source/Control: 200GT - Combustion

Item 60.7(From Mod 4):

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

Emission Unit: S-P0001

Process: HTC

Process Description:

THIS PROCESS CONSISTS OF OPTICAL WAVEGUIDE
LAYDOWN, GLASS DRYING AND COATING
OPERATIONS. THIS PROCESS WILL TAKE PLACE
IN THE FIBER BUILDING.

Emission Source/Control: 00001 - Control

Control Type: FABRIC FILTER

Emission Source/Control: SCBN1 - Control

Control Type: WET SCRUBBER

Emission Source/Control: SCBN2 - Control

Control Type: WET SCRUBBER

Emission Source/Control: 0DRAW - Process

Emission Source/Control: GDOP1 - Process

Emission Source/Control: OWGL1 - Process

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Item 60.8(From Mod 4):

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

Emission Unit: S-P0001

Process: ZV1

Process Description:

This process consists of a house vacuum system for housekeeping in support of glass handling and cutting process at CSSC building. This equipment may also be used for R&D purposes.

Emission Source/Control: ZV100 - Control

Control Type: FABRIC FILTER

Emission Source/Control: 001ZV - Process

Item 60.9(From Mod 4):

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

Emission Unit: S-P0002

Process: AM2

Process Description:

THIS PROCESS INCLUDES BATCHING, AND MELTING OF RAW MATERIALS TO FORM GLASS. THIS PROCESS IS SUBJECT TO THE NESHAP FOR INORGANIC ARSENIC EMISSIONS FROM GLASS MANUFACTURING PER 40CFR61.162(b)(1).

Emission Source/Control: BHPR1 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DX300 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DX400 - Control

Control Type: FABRIC FILTER

Emission Source/Control: MELT1 - Process

Design Capacity: 50 pounds per hour

Emission Source/Control: MELT2 - Process

Design Capacity: 30 pounds per hour

Emission Source/Control: MELT3 - Process

Design Capacity: 60 pounds per hour

Item 60.10(From Mod 4):

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

Emission Unit: S-P0002

Process: AM3

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Process Description:

THIS PROCESS INCLUDES BATCHING AND MELTING OF RAW MATERIALS TO FORM GLASS. THIS PROCESS IS FOR R&D PURPOSES ONLY AND THEREFORE IS EXEMPT FROM AIR PERMITTING. THIS PROCESS WILL NOT USE COMMERCIAL ARSENIC AS A RAW MATERIAL.

Emission Source/Control: BHPR1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DX300 - Control
Control Type: FABRIC FILTER

Emission Source/Control: DX400 - Control
Control Type: FABRIC FILTER

Emission Source/Control: MELT1 - Process
Design Capacity: 50 pounds per hour

Emission Source/Control: MELT2 - Process
Design Capacity: 30 pounds per hour

Emission Source/Control: MELT3 - Process
Design Capacity: 60 pounds per hour

Item 60.11(From Mod 4):

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

Emission Unit: S-P0002

Process: AM4

Process Description:

This process includes batching and melting of raw materials to form glass. The process is subject to the NESHAP for Inorganic Arsenic Emissions from Glass Manufacturing per 40CFR61.162(b)(2). This process is triggered when Process AM2, Emission Sources MELT1 and MELT3 reach 90% of the uncontrolled arsenic emission cap of 0.44 TPY.

Emission Source/Control: BHPR1 - Control
Control Type: FABRIC FILTER

Emission Source/Control: MELT1 - Process
Design Capacity: 50 pounds per hour

Emission Source/Control: MELT3 - Process
Design Capacity: 60 pounds per hour

Item 60.12(From Mod 4):

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



Emission Unit: S-P0002

Process: AM5

Process Description:

THIS PROCESS INCLUDES BATCHING AND MELTING OF RAW MATERIALS TO FORM GLASS FOR COMMERCIAL SALE. THIS PROCESS MAY ALSO BE USED FOR R&D PURPOSES. THIS PROCESS WILL NOT USE COMMERCIAL ARSENIC AS A RAW MATERIAL.

Emission Source/Control: DX200 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DX300 - Control

Control Type: FABRIC FILTER

Emission Source/Control: DX400 - Control

Control Type: FABRIC FILTER

Emission Source/Control: AMIXR - Process

Emission Source/Control: AMM50 - Process

Condition 4-44: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Replaces Condition(s) 19

Item 4-44.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Item 4-44.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The pollution abatement device ACFS1 shall be operated and maintained consistent with good engineering practices and in accordance with the manufacturer's recommendations. Records on malfunctions and maintenance of the pollution abatement devices shall be kept on site and made available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 65: Emissions from new emission sources and/or modifications

Effective between the dates of 08/11/2006 and Permit Expiration Date



Applicable State Requirement:6 NYCRR 212.4 (a)

Item 65.1:

This Condition applies to Emission Unit: S-P0001
Process: 010

Item 65.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 68: Emissions from new emission sources and/or modifications
Effective between the dates of 08/11/2006 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 68.1:

This Condition applies to Emission Unit: S-P0001
Process: AM1

Item 68.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 4-45: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Replaces Condition(s) 69

Item 4-45.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001
Process: AM1 Emission Source: DX100

Item 4-45.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The AMPL HF Scrubber shall be operated and continuously monitored for pH while the process is operational. The one hour average pH shall be maintained at a minimum of 5.5 pH units. Monitoring records shall be kept on site and made available to the Department upon request.

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Parameter Monitored: PH
Lower Permit Limit: 5.5 pH (STANDARD) units
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 3-2: Emissions from new emission sources and/or modifications
Effective between the dates of 09/12/2007 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 3-2.1:

This Condition applies to Emission Unit: S-P0001
Process: FE1

Item 3-2.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 71: Compliance Demonstration
Effective between the dates of 08/11/2006 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 71.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001
Process: FE1 Emission Source: 00001

Item 71.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The FE Baghouse shall be operated and continuously monitored for differential pressure while the process is operational. The one hour average differential pressure shall be maintained at a maximum of 9 inches of water. Monitoring records shall be kept on site and made available to the Department upon request.

Parameter Monitored: PRESSURE CHANGE
Upper Permit Limit: 9 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 72: Compliance Demonstration



Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 72.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: FE1

Emission Source: SCBN1

Item 72.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The FE HCl Scrubber shall be operated and continuously monitored for pH while the process is operational. The one hour average pH shall be maintained at a minimum of 8 pH units. Monitoring records shall be kept on site and made available to the Department upon request.

Parameter Monitored: PH

Lower Permit Limit: 8 pH (STANDARD) units

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 73: Compliance Demonstration

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 73.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: FE1

Emission Source: SCBN2

Item 73.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The FE Cl₂ Scrubber shall be operated and continuously monitored for pH while the process is operational. The one hour average pH shall be maintained at a minimum of 8 pH units. Monitoring records shall be kept on site and made available to the Department upon request.

Parameter Monitored: PH

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Lower Permit Limit: 8 pH (STANDARD) units
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 78: Emissions from new emission sources and/or modifications
Effective between the dates of 08/11/2006 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 78.1:

This Condition applies to Emission Unit: S-P0001
Process: FE3

Item 78.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 3-4: Emissions from new emission sources and/or modifications
Effective between the dates of 09/12/2007 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 3-4.1:

This Condition applies to Emission Unit: S-P0001
Process: HTC

Item 3-4.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 3-5: Compliance Demonstration
Effective between the dates of 09/12/2007 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 3-5.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0001

Process: HTC

Emission Source: 00001

Item 3-5.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The FE Baghouse shall be operated and continuously



Item 3-7.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The FE Cl₂ Scrubber shall be operated and continuously monitored for pH while the process is operational. The one hour average pH shall be maintained at a minimum of 8 pH units. Monitoring records shall be kept on site and made available to the Department upon request.

Parameter Monitored: PH

Lower Permit Limit: 8 pH (STANDARD) units

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 80: Emissions from new emission sources and/or modifications
Effective between the dates of 08/11/2006 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 80.1:

This Condition applies to Emission Unit: S-P0002

Process: AM2

Item 80.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 4-46: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Replaces Condition(s) 81

Item 4-46.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM2

Item 4-46.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The control devices DX300 and DX400 shall be operated and

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continuously monitored for differential pressure while the process is operational. The one hour average differential pressure shall be maintained at a maximum of 8 inches of water. Monitoring records shall be kept on site and made available to the Department upon request.

Parameter Monitored: PRESSURE DROP
Upper Permit Limit: 8 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-47: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Replaces Condition(s) 2-1

Item 4-47.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002
Process: AM2

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

Item 4-47.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:

In order to comply with the requirement of 6NYCRR 212.4(a), the sum of the particulate emissions from Emission Points PRE01 and PRE02 of Process AM2 shall not exceed 0.56 pounds per hour.

Upper Permit Limit: 0.56 pounds per hour
Reference Test Method: USEPA METHOD 5
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 4-48: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Replaces Condition(s) 52

Item 4-48.1:

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The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM2

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 4-48.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to comply with the requirement of 6NYCRR 212.4(a), the sum of the particulate emissions from Emission Points DX004 and DX005 of Process AM2 shall not exceed 0.23 pounds per hour.

Upper Permit Limit: 0.23 pounds per hour

Reference Test Method: USEPA METHOD 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 82: Compliance Demonstration

Effective between the dates of 08/11/2006 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 82.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM2

Emission Source: BHPR1

Item 82.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

The AMPL Arsenic Melter (RM203) Baghouse Torit shall be operated and continuously monitored for differential pressure while the process is operational. The one hour average differential pressure shall be maintained at a maximum of 5.5 inches of water. Monitoring records shall be kept on site and made available to the Department upon request.

Parameter Monitored: PRESSURE CHANGE

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Upper Permit Limit: 5.5 inches of water
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 83: Emissions from new emission sources and/or modifications
Effective between the dates of 08/11/2006 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 83.1:

This Condition applies to Emission Unit: S-P0002
Process: AM4

Item 83.2:

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 6 NYCRR Part 212 for the environmental rating issued by the commissioner.

**Condition 4-49: Compliance Demonstration
Effective between the dates of 01/07/2013 and Permit Expiration Date**

Applicable State Requirement:6 NYCRR 212.4 (a)

Replaces Condition(s) 2-5

Item 4-49.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002
Process: AM4

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

Item 4-49.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to comply with the requirement of 6NYCRR 212.4(a), the particulate emissions from Emission Point PRE01 of Process AM4 shall not exceed 0.56 pounds per hour.

Upper Permit Limit: 0.56 pounds per hour
Reference Test Method: USEPA Method 5
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY



Condition 4-50: Compliance Demonstration

Effective between the dates of 01/07/2013 and Permit Expiration Date

Applicable State Requirement:6 NYCRR 212.4 (a)

Item 4-50.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: S-P0002

Process: AM5

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 4-50.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

In order to comply with the requirement of 6NYCRR 212.4(a), the sum of the particulate emissions from Emission Points DX004 and DX005 of Process AM5 shall not exceed 0.33 pounds per hour.

Upper Permit Limit: 0.33 pounds per hour

Reference Test Method: USEPA METHOD 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

