



**PERMIT**  
**Under the Environmental Conservation Law (ECL)**

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 9-0608-00053/00019  
Effective Date:

Expiration Date:

Permit Issued To: JAMESTOWN BOARD OF PUBLIC UTILITIES  
92 STEELE ST  
PO BOX 700  
JAMESTOWN, NY 14701-0700

Contact: STEVEN DINEEN  
JAMESTOWN BOARD OF PUBLIC UTILITIES  
92 STEELE ST PO BOX 700  
JAMESTOWN, NY 14702-0700  
(716) 661-1698

Facility: SAMUEL A CARLSON GENERATING STATION  
136 STEELE ST  
JAMESTOWN, NY 14701-6438

Contact: STEVEN DINEEN  
JAMESTOWN BOARD OF PUBLIC UTILITIES  
92 STEELE ST PO BOX 700  
JAMESTOWN, NY 14702-0700  
(716) 661-1698

Description:  
copy and edit previous fac descrip  
ADD boiler 10 (EU 4) conversion from 190 mmBtu/hr coal fired unit to a 198 mmBtu/hr natural gas fired unit only with low NOx burners and flue gas recirculation.

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: DOUGLAS E BORSCHER  
270 MICHIGAN AVE  
BUFFALO, NY 14203-2915

Authorized Signature: \_\_\_\_\_ Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_



**Notification of Other State Permittee Obligations**

**Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification**

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

**Item B: Permittee's Contractors to Comply with Permit**

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

**Item C: Permittee Responsible for Obtaining Other Required Permits**

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

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

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



**LIST OF CONDITIONS**

**DEC GENERAL CONDITIONS**

**General Provisions**

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

**Facility Level**

- Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS



**DEC GENERAL CONDITIONS**

**\*\*\*\* General Provisions \*\*\*\***

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

**GENERAL CONDITIONS - Apply to ALL Authorized Permits.**

**Condition 1: Facility Inspection by the Department**

**Applicable State Requirement: ECL 19-0305**

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

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

**Item 2.1:**

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

**Condition 3: Applications for permit renewals, modifications and transfers**

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

The permittee must submit a renewal application at least 180 days before 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 to the Department for approval.



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

**Item 4.1:**

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

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

**\*\*\*\* Facility Level \*\*\*\***

**Condition 5: Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 9 Headquarters  
Division of Environmental Permits  
270 Michigan Avenue  
Buffalo, NY 14203-2915  
(716) 851-7165

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



**Permit Under the Environmental Conservation Law (ECL)**

**ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT**

**IDENTIFICATION INFORMATION**

Permit Issued To: JAMESTOWN BOARD OF PUBLIC UTILITIES  
92 STEELE ST  
PO BOX 700  
JAMESTOWN, NY 14701-0700

Facility: SAMUEL A CARLSON GENERATING STATION  
136 STEELE ST  
JAMESTOWN, NY 14701-6438

Authorized Activity By Standard Industrial Classification Code:  
4911 - ELECTRIC SERVICES

Permit Effective Date:

Permit Expiration Date:



## LIST OF CONDITIONS

### FEDERALLY ENFORCEABLE CONDITIONS

#### Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 202-2.1: Compliance Certification
- 3 6 NYCRR 202-2.5: Recordkeeping requirements
- 4 6 NYCRR 215.2: Open Fires - Prohibitions
- 5 6 NYCRR 200.7: Maintenance of Equipment
- 6 6 NYCRR 201-1.7: Recycling and Salvage
- 7 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 8 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 9 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 10 6 NYCRR 202-1.1: Required Emissions Tests
- 11 40 CFR Part 68: Accidental release provisions.
- 12 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 13 6 NYCRR 201-3.2 (b): Exempt Activities - Maintenance of Control Equipment
- 14 6 NYCRR 201-3.3 (b): Trivial Activities - Maintenance of Control Equipment
- 15 6 NYCRR Subpart 201-6: Emission Unit Definition
- 16 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 17 6 NYCRR 201-6.4 (a) (7): Fees
- 18 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 19 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 20 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 21 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR 201-6.4 (e): Compliance Certification
- 24 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 25 6 NYCRR 202-1.2: Notification
- 26 6 NYCRR 202-1.3: Acceptable procedures
- 27 6 NYCRR 202-1.3: Acceptable procedures - Stack test report submittal
- 28 6 NYCRR 202-1.3: Alternate test methods
- 29 6 NYCRR 202-1.4: Separate emission test by the commissioner
- 30 6 NYCRR 202-1.5: Prohibitions
- 31 6 NYCRR 211.1: Air pollution prohibited
- 32 6 NYCRR 212.6 (a): Compliance Certification
- 33 6 NYCRR 225-1.2 (a) (2): Compliance Certification
- 34 6 NYCRR 225-1.2 (a) (2): Compliance Certification
- 35 6 NYCRR 225-1.2 (c): Compliance Certification
- 36 6 NYCRR 227-1.2 (a) (1): Compliance Certification
- 37 6 NYCRR 227-1.3 (a): Compliance Certification
- 38 6 NYCRR 227-1.3 (a): Compliance Certification
- 39 6 NYCRR 227-1.3 (a): Compliance Certification
- 40 6 NYCRR 227-1.4 (b): Compliance Certification
- 41 6 NYCRR 243-1.6 (c): NOx Ozone Season Emission Requirements



- 42 6 NYCRR 243-1.6 (d): Excess emission requirements
- 43 6 NYCRR 243-1.6 (e): Recordkeeping and reporting requirements
- 44 6 NYCRR 243-2.1: Authorization and responsibilities of CAIR  
designated representative
- 45 6 NYCRR 243-8.1: General requirements
- 46 6 NYCRR 243-8.1: Prohibitions
- 47 6 NYCRR 243-8.3: Out of control periods
- 48 6 NYCRR 243-8.3: Compliance Certification
- 49 6 NYCRR 243-8.5 (d): Quarterly reports
- 50 6 NYCRR 243-8.5 (e): Compliance certification
- 51 6 NYCRR Subpart 244-1: CAIR NOx Annual Trading Program General  
Conditions
- 52 6 NYCRR Subpart 244-2: Designated CAIR Representative
- 53 6 NYCRR Subpart 244-8: Compliance Certification
- 54 6 NYCRR Subpart 244-8: Compliance Certification
- 55 6 NYCRR Subpart 245-1: CAIR General and Permit Requirements
- 56 6 NYCRR Subpart 245-2: Designated CAIR Representative
- 57 6 NYCRR Subpart 245-8: Compliance Certification
- 58 6 NYCRR Subpart 245-8: Compliance Certification
- 59 40CFR 60, NSPS Subpart A: Applicability of Subpart A General Provisions
- 60 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 61 40CFR 60.7(a), NSPS Subpart A: Date of construction notification -  
If a COM is not used.
- 62 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 63 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 64 40CFR 60.11(d), NSPS Subpart A: Compliance with Standards and  
Maintenance Requirements
- 65 40CFR 60.12, NSPS Subpart A: Circumvention.
- 66 40CFR 60.13(a), NSPS Subpart A: Continuous Monitoring Requirements
- 67 40CFR 60.13(d), NSPS Subpart A: Monitoring Requirements
- 68 40CFR 60.13(d), NSPS Subpart A: Compliance Certification
- 69 40CFR 60.13(e), NSPS Subpart A: Monitoring Requirements
- 70 40CFR 60.13(e), NSPS Subpart A: Compliance Certification
- 71 40CFR 60.13(h), NSPS Subpart A: Monitoring Requirements
- 72 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 73 40CFR 63, Subpart DDDDD: Compliance Certification
- 74 40 CFR Part 64: Compliance Certification
- 75 40 CFR 64.8: Elements of a Quality Improvement Plan
- 76 40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations  
and Permitting
- Emission Unit Level**
- 77 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 78 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 79 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

**EU=U-00003**

- 80 6 NYCRR 231-11.2 (b): Compliance Certification

**EU=U-00003,EP=00003**

- 81 40 CFR Part 64: Compliance Certification
- 82 40 CFR Part 64: Compliance Certification



**EU=U-00003,EP=00003,Proc=001**

- 83 6 NYCRR 227-1.2 (a) (4): Compliance Certification
- 84 6 NYCRR 227-1.2 (a) (4): Compliance Certification

**EU=U-00003,EP=00003,Proc=001,ES=00001**

- \*85 6 NYCRR 201-7.1: Capping Monitoring Condition
- 86 6 NYCRR 227-2.4 (b) (1) (i): Compliance Certification

**EU=U-00003,EP=00003,Proc=001,ES=00004**

- 87 6 NYCRR 227-2.4 (a) (1) (i): Compliance Certification
- 88 6 NYCRR 249.1 (c) (2): Compliance Certification

**EU=U-00004**

- \*89 6 NYCRR 201-7.1: Capping Monitoring Condition

**EU=U-00008**

- 90 40CFR 60, NSPS Subpart Y: Compliance Certification

**EU=U-00020**

- \*91 6 NYCRR 201-7.1: Capping Monitoring Condition
- \*92 6 NYCRR 201-7.1: Capping Monitoring Condition
- \*93 6 NYCRR 201-7.1: Capping Monitoring Condition
- \*94 6 NYCRR 201-7.1: Capping Monitoring Condition
- 95 6 NYCRR 231-2.4 (a) (1): Documents the Use of ERCs for EU U-00020, the Gas Turbine
- 96 40CFR 60.332(a)(1), NSPS Subpart GG: Compliance Certification
- 97 40CFR 60.332(f), NSPS Subpart GG: Compliance Certification

**EU=U-00020,Proc=DB1**

- 98 40CFR 60.44b(1)(1), NSPS Subpart Db: Compliance Certification
- 99 40CFR 60.49b(d), NSPS Subpart Db: Compliance Certification

**EU=U-00022**

- \*100 6 NYCRR 201-7.1: Capping Monitoring Condition
- \*101 6 NYCRR 201-7.1: Capping Monitoring Condition
- \*102 6 NYCRR 201-7.1: Capping Monitoring Condition

**EU=U-00023**

- \*103 6 NYCRR 201-7.1: Capping Monitoring Condition
- 104 40CFR 60.333(b), NSPS Subpart GG: Compliance Certification

**EU=U-00027,EP=00027**

- 105 6 NYCRR 227-2.4 (c) (1) (i): Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

- 106 ECL 19-0301: Contaminant List
- 107 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 108 6 NYCRR 201-1.4: Unavoidable noncompliance and violations
- 109 6 NYCRR 201-1.4: Unavoidable noncompliance and violations



- 110 6 NYCRR 211.1: Compliance Demonstration
  - 111 6 NYCRR 211.2: Visible Emissions Limited
  - 112 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
  - 113 6 NYCRR 225-1.2 (a) (2): Compliance Demonstration
  - 114 6 NYCRR 227-1.4 (a): Continuous Opacity Monitor Required
  - 115 6 NYCRR 242-1.5: Compliance Demonstration
  - 116 6 NYCRR Subpart 242-4: Compliance Demonstration
  - 117 6 NYCRR 242-8.5: Compliance Demonstration
  - 118 6 NYCRR 246.5 (b): Compliance Demonstration
  - 119 6 NYCRR 246.6 (b): Compliance Demonstration
  - 120 6 NYCRR 246.7 (b) (1): Requirements for Installation, Certification  
and Data Accounting
  - 121 6 NYCRR 246.8 (c) (1): Certification Procedures for Sorbent Trap  
Monitoring Systems
  - 122 6 NYCRR 246.8 (c) (2): Recertification Procedures for Sorbent Trap  
Monitoring System
  - 123 6 NYCRR 246.8 (c) (3): Compliance Demonstration
  - 124 6 NYCRR 246.9 (a): Missing Data Procedures and Out of Control  
Periods for CEMs
  - 125 6 NYCRR 246.11 (a): Compliance Demonstration
  - 126 6 NYCRR 246.11 (b): Compliance Demonstration
  - 127 6 NYCRR 246.11 (c): Compliance Demonstration
  - 128 6 NYCRR 246.11 (d): Compliance Demonstration
  - 129 6 NYCRR 246.11 (e): Compliance Demonstration
- Emission Unit Level**

**EU=U-00003,EP=00003,Proc=001,ES=00001**

- 130 6 NYCRR 227-2.5 (c): Compliance Demonstration

**EU=U-00003,EP=00003,Proc=001,ES=00004**

- 131 6 NYCRR 227-2.5 (d): Compliance Demonstration

**EU=U-00004,EP=00004**

- 132 6 NYCRR 227-2.4 (b): Compliance Demonstration

**EU=U-00020,Proc=GT1**

- 133 6 NYCRR 227-2.4 (e) (2): Compliance Demonstration
- 134 6 NYCRR 227-2.4 (e) (3): Compliance Demonstration
- 135 6 NYCRR 227-2.4 (e) (3): Compliance Demonstration

**EU=U-00020,Proc=GT2**

- 136 6 NYCRR 227-2.4 (e) (1): Compliance Demonstration
- 137 6 NYCRR 227-2.4 (e) (3): Compliance Demonstration

**EU=U-00022,EP=00022**

- 138 6 NYCRR 227-2.4 (d): Compliance Demonstration

**EU=U-00023,EP=00023**

- 139 6 NYCRR 227-2.4 (e) (1): Compliance Demonstration



140 6 NYCRR 227-2.4 (e) (3): Compliance Demonstration

**EU=U-00027,EP=00027**

141 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Demonstration

**EU=U-00028,EP=00028**

142 6 NYCRR 227-2.4 (d): Compliance Demonstration

NOTE: \* preceding the condition number indicates capping.



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

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

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

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



**Item C: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.3 (a) (4)**

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

**Item D: Certification by a Responsible Official - 6 NYCRR 201-6.3 (d) (12)**

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

**Item E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.5 (a) (2)**

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

**Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.5 (a) (3)**

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

**Item G: Cessation or Reduction of Permitted Activity Not a Defense - 6 NYCRR 201-6.5 (a) (5)**

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

**Item H: Property Rights - 6 NYCRR 201-6.5 (a) (6)**

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



**Item I: Severability - 6 NYCRR 201-6.5 (a) (9)**

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

**Item J: Permit Shield - 6 NYCRR 201-6.5 (g)**

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

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

**Item K: Reopening for Cause - 6 NYCRR 201-6.5 (i)**

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is



three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

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

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

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

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

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

**Item 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.

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

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

**Condition 1: Acceptable Ambient Air Quality  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 200.6**

**Item 1.1:**

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

**Condition 2: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 202-2.1**

**Item 2.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 2.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission statements shall be submitted on or before April 15th each year for emissions of the previous calendar



year.

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

**Condition 3: Recordkeeping requirements**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-2.5**

**Item 3.1:**

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

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

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

**Condition 4: Open Fires - Prohibitions**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 4.1:**

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 4.2**

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

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.
- (e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.
- (f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.



- (g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.
- (h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.
- (i) Prescribed burns performed according to Part 194 of this Title.
- (j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.
- (k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.
- (l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

**MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

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

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

**Condition 5: Maintenance of Equipment  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 5.1:**

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

**Condition 6: Recycling and Salvage  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-1.7**

**Item 6.1:**

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



**Condition 7: Prohibition of Reintroduction of Collected Contaminants to the air**

**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-1.8**

**Item 7.1:**

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

**Condition 8: Exempt Sources - Proof of Eligibility**

**Effective for entire length of Permit**

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

**Item 8.1:**

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

**Condition 9: Trivial Sources - Proof of Eligibility**

**Effective for entire length of Permit**

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

**Item 9.1:**

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

**Condition 10: Required Emissions Tests**

**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.1**

**Item 10.1:**

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 11: Accidental release provisions.**

**Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR Part 68**





**Item 14.1:**

The owner and /or operator of any emission source or unit that is listed as eligible to be trivial in 6 NYCRR Part 201-3.3(c), on the basis of the use of appropriate emission control device shall operate and maintain such device in a manner consistent with good engineering practices.

**Condition 15: Emission Unit Definition  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 15.1:**

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

Emission Unit: U-00003

Emission Unit Description:

This emission unit was created for emission point 3. Two coal fired steam boilers (commonly known as boilers #9 and #12) emit to one common stack (EP 00003), also known as the North Stack. Boiler #9, designated as a large boiler, has a nominal heat input rate of 190 mmBtu/hr. Boiler #12, designated as a very large boiler, has a nominal heat input rate of 297 mmBtu/hr. The boilers primarily fire coal as described in process 001. However, distillate oil is used to bring the boilers up to temperature during startup and other conditions when necessary, as described in process 007. Low NOx burners are used to comply with the emission requirements of NOx RACT. Boiler #12 will be shut down on or before 01/01/2014 in order for this boiler to be exempt from BART requirements as well as NOx RACT limits that would otherwise have been effective on 7/1/2014.

Until boiler #12 shuts down, emission unit 3 consists of emission point 00003 (the north stack), emission source 00001 (boiler #9), emission source/control 00003 (the electrostatic precipitator that serves boiler #9), emission source 00004 (boiler #12), emission source/control 00PAC (the powdered activated carbon system that serves boiler #12), emission source/control 00WTR (the Consol water spray system that serves boiler #12), and emission source/control 00006 (the electrostatic precipitator that serves boiler #12). Once boiler #12 shuts down, emission unit 3 will consist of emission point 00003, emission source 00001, and emission source/control 00003.

Building(s): SA CARLSON

**Item 15.2:**

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

Emission Unit: U-00004

Emission Unit Description:

This emission unit was created for emission point 4. One natural gas fired boiler (commonly known as boiler #10)



emits to stack EP 00004, also known as the South Stack. This boiler is designated as large boiler and has a nominal heat input rate of 198 mmBtu/hr. The boiler fires natural gas only as described in process 10G. Low NO<sub>x</sub> burners and flue gas recirculation are used to comply with the emission requirements of NO<sub>x</sub> RACT.

Emission unit 4 consists of emission point 00004 (the south stack), emission source/control 00007 (boiler #10), emission source/control LNB10 (low NO<sub>x</sub> burners), and emission source/control FGR10 (flue gas recirculation). Emission source/control 00009 (the electrostatic precipitator (ESP) for boiler #10) is no longer used because the boiler was converted from coal to natural gas and, as such, the ESP was removed from the permit. The ESP was abandoned in place.

Building(s): SA CARLSON

**Item 15.3:**

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

Emission Unit: U-00005

Emission Unit Description:

This emission unit was created for emission point 5, which vents air displaced by flyash collected in one of two ash collection silos.

Building(s): SA CARLSON

**Item 15.4:**

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

Emission Unit: U-00006

Emission Unit Description:

This emission unit was created for emission point 6, which vents air displaced by fly ash and bottom ash collected in one of two ash collection silos.

Building(s): SA CARLSON

**Item 15.5:**

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

Emission Unit: U-00007

Emission Unit Description:

This emission unit was created for emission point 7, which exhausts the transport air of the pneumatic ash handling system. This transport system services all the ESP collection hoppers.

Building(s): SA CARLSON

**Item 15.6:**

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

Emission Unit: U-00008



Emission Unit Description:

This emission unit was created for emission point 8, which ventilates the coal conveying system to keep dust levels down throughout the conveyor system. Air displaced by coal in the coal silo enters the conveyor system and is exhausted through emission point 8.

Building(s): SA CARLSON

**Item 15.7:**

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

Emission Unit: U-00020

Emission Unit Description:

This emission unit consists of a GE LM6000 combustion gas turbine generator system and a Deltak heat recovery steam generator (HRSG). The turbine is natural gas-fired and has a nominal capacity of 43 MW at a heat input of 430 mmBtu/hr (HHV). The HRSG has natural gas supplemental firing (duct burners) rated at approximately 144 mmBtu/hr. During simple cycle operation, defined as when the combustion turbine is operating (including startup and shutdown) and the duct burner is not operating, the turbine exhausts directly to EP 00020 or to EP 00021. During combined cycle operation, defined as when both the combustion turbine and duct burner are operating, the turbine exhausts through the HRSG to EP 00021. A low pressure SPRINT (SPRay INTERcooling) system and an Enhanced Flow System (EFS) were installed on the LM6000 gas turbine in 2005 to improve the efficiency and output of the system.

Building(s): SA CARLSON

**Item 15.8:**

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

Emission Unit: U-00022

Emission Unit Description:

This emission unit consists of a 23.3 mmBtu/hr natural gas-fired boiler manufactured by Cleaver Brooks. This boiler supplements the district heating requirements. This boiler emits to EP 00022.

Building(s): SA CARLSON

**Item 15.9:**

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

Emission Unit: U-00023

Emission Unit Description:

This emission unit consists of a 750 kW emergency backup Solar combustion gas turbine generator set to provide black start capability for the LM6000 combustion gas turbine. This turbine will fire only distillate oil and

New York State Department of Environmental Conservation

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



will operate only when the primary power source at the SA Carlson station has been rendered inoperable by an emergency situation and for weekly testing. Operations will be limited to 500 hours per year. The turbine exhausts to EP 00023.

Building(s): SA CARLSON

**Item 15.10:**

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

Emission Unit: U-00027

Emission Unit Description:

This emission unit is a nominal 73.5 MMBtu/hr package boiler. The boiler is fired using natural gas as its only fuel. It is one of four sources that can provide hot water to the district heating system. This exhausts through emission point 00027.

Building(s): PB Bldg

**Item 15.11:**

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

Emission Unit: U-00028

Emission Unit Description:

This emission unit is an 80 horsepower low pressure steam boiler with a nominal heat input rate of 3.2 MMBtu/hr. This is referred to as the DA (deaeration) Tank steam boiler. The boiler is fired using natural gas as its only fuel. This boiler exhausts through emission point 00028.

Building(s): SA CARLSON

**Condition 16: Requirement to Provide Information  
Effective for entire length of Permit**

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

**Item 16.1:**

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

**Condition 17: Fees  
Effective for entire length of Permit**

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





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

**Condition 20: Records of Monitoring, Sampling, and Measurement  
Effective for entire length of Permit**

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

**Item 20.1:**

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

**Condition 21: Compliance Certification  
Effective for entire length of Permit**

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

**Item 21.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 21.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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



shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

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

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting



requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

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

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 22: Progress Reports Due Semiannually  
Effective for entire length of Permit**

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

**Item 22.1:**

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

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

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



**Condition 23: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 23.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 23.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related recordkeeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions; and
  - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.





of the change within the permitted facility, the date on which the change will occur, any change in emissions, and any permit term or condition that is no longer applicable as a result of the change.

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

**Condition 25: Notification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.2**

**Item 25.1:**

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

**Condition 26: Acceptable procedures**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.3**

**Item 26.1:**

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

**Condition 27: Acceptable procedures - Stack test report submittal**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.3**

**Item 27.1:**

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

**Condition 28: Alternate test methods**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.3**

**Item 28.1:**

Alternate emission test methods or deviations from acceptable test methods may be utilized if it is impractical to utilize the acceptable test methods or where no applicable test method is available, if prior acceptance of the proposed alternate method is granted by the commissioner.

**Condition 29: Separate emission test by the commissioner**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.4**

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



**Item 29.1:**

The commissioner may conduct separate or additional emission tests on the behalf of the State to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

**Condition 30: Prohibitions**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 202-1.5**

**Item 30.1:**

No person shall conceal an emission by the use of air or other gaseous diluents to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

**Condition 31: Air pollution prohibited**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 211.1**

**Item 31.1:**

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

**Condition 32: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 212.6 (a)**

**Item 32.1:**

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

Emission Unit: U-00005                      Emission Point: 00005

Emission Unit: U-00006                      Emission Point: 00006

Emission Unit: U-00007                      Emission Point: 00007

Emission Unit: U-00008                      Emission Point: 00008

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

**Item 32.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL



DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

- 1) No person shall cause or allow emissions having an average opacity during any six consecutive minutes of 20 percent or greater from any emission points, except only the emission of uncombined water vapor.
- 2) The permittee shall monitor compliance with this limit by undertaking the following at least once during each day the process is in operation:
  - a) Observe the visible emissions from each emission point in the emission units. Each visible emission observation shall be performed at a location with the proper sun angle, background, and line of sight as required by EPA Method 9. The observer must be trained and knowledgeable regarding the effects on the visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).
  - b) If any visible emissions with greater than 5% opacity are observed, then the permittee shall:
    - i) conduct an EPA Method 9 opacity observation for three consecutive 6-minute periods,
    - ii) conduct an inspection of the process and control device, and
    - iii) record in a log the date, time, staff name, results of each visible emission/Method 9 observation, inspection findings, and the corrective actions taken. The log shall be made available for Department review upon request.
- 3) If any of the initial Method 9 6-minute average opacities exceed 20% then corrective actions shall be taken to reduce opacity below 20%. Another three consecutive 6-minute opacity observations shall be conducted after the corrective actions have been made, using EPA Method 9 to confirm opacity remains below 20%.
- 4.) Each event which exceeds the 20% opacity standard shall be reported as a deviation in the semi-annual report. The details of each deviation shall be included in the semi-annual report and include at least the date, time, initial opacity observations, corrective actions taken, and follow up opacity observations.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: 40 CFR Part 60, Appendix A, Method 9  
Monitoring Frequency: DAILY  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 33: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 33.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 33.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1) The three month average sulfur content of coal being used shall not exceed 1.9 pounds per million Btu. This limit shall be monitored by the use of a continuous emission monitoring system (CEMS) which measures sulfur dioxide emissions. The CEMS shall be installed and operated to meet the requirements of 40 CFR Part 75 Appendix A and shall meet the quality assurance and quality control requirements of 40 CFR Part 75 Appendix B.
- 2) The equivalent three month rolling average sulfur dioxide emission limit is 3.8 pounds per million Btu.
- 3) The three month average sulfur emission rate shall be reported for each month of a compliance reporting period.

Manufacturer Name/Model Number: TECO 43i

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.9 pounds per million Btus

Reference Test Method: 40 CFR 75 App A

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-MONTH AVERAGE ROLLED MONTHLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 34: Compliance Certification**  
**Effective for entire length of Permit**



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

**Item 34.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)  
Monitoring Description:

- 1) The maximum 24 hour average sulfur content of coal being used shall not exceed 2.5 pounds per million Btu. This limit shall be monitored by the use of a continuous emission monitoring system (CEMS) which measures sulfur dioxide emissions. The CEMS shall be installed and operated to meet the requirements of 40 CFR Part 75 Appendix A and shall meet the quality assurance and quality control requirements of 40 CFR Part 75 Appendix B.
- 2) The equivalent 24-hour average sulfur dioxide emission limit is 5.0 pounds per million Btu.
- 3) The daily 24 hour average sulfur emission rates shall be reported for each day of a compliance reporting period.

Manufacturer Name/Model Number: TECO 43i  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 2.5 pounds per million Btus  
Reference Test Method: 40 CFR 75 App A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 35: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 225-1.2 (c)**

**Item 35.1:**

The Compliance Certification activity will be performed for the facility:





Emission Unit: U-00003

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

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

- 1) No person shall cause or allow an emission into the outdoor atmosphere of particulates in excess of 0.10 pounds per million Btu from any stationary combustion installation with a maximum heat input capacity exceeding 250 million Btu per hour firing oil or any liquid fuel.
- 2) Oil firing is used primarily during boiler startup. The boilers are not designed to fire oil or any liquid fuel exclusively for extended periods of time.
- 3) In writing the Department may request a stack test to determine compliance with the above standard.
- 4) If a stack test is requested, a stack test report shall be submitted within 60 days of the testing.
- 5) The semi-annual reports shall indicate if any testing was conducted and a brief summary of the results and the compliance status. If no testing was conducted during the reporting time frame state so.

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 37: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 37.1:**

The Compliance Certification activity will be performed for the Facility.

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



**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Below is the compliance schedule, Schedule A, from the Opacity Consent Order signed on July 20, 2011 for excess opacity:

1. Respondent shall at all times, including periods of startup, shutdown and malfunction, maintain and operate the Facility, including associated air pollution control equipment, in a manner consistent with good air pollution control practices for minimizing emissions in accordance with 40 CFR §61.12(c).
2. Respondent shall continue to maintain, operate and upgrade (as necessary) its Continuous Opacity Monitoring Systems (COMS) to insure correct, real-time data for all opacity emissions consistent with the requirements of 40 CFR Part 75, the manufacturer's recommendations and its QA/QC program.
3. Respondent has upgraded the Facility to achieve fuel diversity and independence from coal such that the Facility's electric generating system has the functional capability of operating only on the steam provided by the heat recovery steam generator (HRSG). (Renewal 2 update - When the Order was signed in 2011 the facility was engineering changes and testing the capability of the HRSG providing steam to one of the existing steam turbines to produce electricity. By December 2012 the facility accomplished the goal of operating one steam turbine generator off of steam generated only by the HRSG. The lengthy testing, evaluation and retesting schedule was removed from this condition in renewal 2 because it was completed.)
4. Respondent acknowledges that emission sources ES00001 (boiler 9), ES00004 (boiler 12) and ES00007 (boiler 10) (the "coal boilers") in the current (July 2011) configurations, will not comply with 6 NYCRR 246 Phase II of the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units, which is scheduled to be applicable to the coal boilers. The coal boilers, in their current configuration, are scheduled to cease operating before the compliance date of 6 NYCRR 246 Phase II, which is January 1, 2015. Respondent, however, is not precluded from making any modifications to the coal boilers, as approved by the Department, that will allow compliance with 6 NYCRR 246 Phase II or any new or existing



applicable law or regulation. (Modification 2 update – Modification 2 includes changing boiler 10 from a coal fired unit to natural gas only. Once the conversion is complete the mercury emission limits will not apply to boiler 10.)

5. ESP Operation, Maintenance and Monitoring  
Respondent shall operate and maintain its ESPs in a manner consistent with good air pollution control practice for minimizing emissions. Respondent shall continue an ESP monitoring program in accordance with the following protocol:

a. Parameters to be Monitored: Number of operational fields, primary and secondary voltage and current, and spark rate.

b. Monitoring Location: Current and voltage at each transformer and spark rate in each ESP section.

c. Analytical Devices Required: Ammeters, voltmeters, and/or other methods or instrumentation as appropriate.

d. Data Acquisition and Measurement System Operation:

i. Data Collection Frequency: data shall be recorded by a distributed control system (DCS) or similar digital data acquisition system; alternatively, this data shall be manually recorded for each six-minute period during which average opacity exceeds 20%.

ii. Reporting units: Operational fields, amps, volts, and/or sparks per minute, as appropriate.

iii. Recording process: automatically on strip chart or digital data acquisition system (if data is collected digitally), or in an operational log (if data is recorded manually).

e. Data Requirements:

i. Baseline ESP operating parameter records;

ii. Historical plant records of ESP performance parameters; and

iii. Particulate emission testing data with the concurrent ESP operating parameter records.

f. Specific QA/QC Procedures: Calibrate, maintain and



operate instrumentation according to manufacturer's recommendations.

#### 6. Opacity Incident Reporting (OIR)

Respondent shall maintain an OIR log for recording relevant equipment and operational information during and/or immediately subsequent to each opacity incident. An excess opacity emissions incident consists of one or more six minute periods in which the average opacity exceeds 20 percent, except for one six-minute period per hour of not more than 27 percent, which are caused by the same circumstances. The opacity incident log shall include at a minimum the following information:

- a. The personnel on duty.
- b. Identification of the process and/or equipment involved.
- c. The opacity incident start time.
- d. The 6 minute average opacity measurements during the incident. This can be a table or graph.
- e. The mode of operation, for example, a cold startup.
  
- f. A description of the opacity incident and as necessary a sequence of events.
- g. The preliminary cause of the exceedance.
- h. What corrective action was taken and when.
- i. The result of the corrective action taken.
- j. The time the opacity incident ended.
- k. The status of air cleaning equipment. See item 8 above for ESP parameter reporting requirements during each opacity exceedance.

Respondent shall maintain opacity incident logs for a period of five years and they shall be made available for inspection by the Department on request. The information contained within opacity incident logs shall form the basis for more detailed root cause analysis, which will then be used to determine what if any corrective actions, design modifications and project/program development and implementation are appropriate to eliminate future opacity incidents.

#### 7. Quality Assurance Program

Respondent shall implement a quality assurance program consisting of quarterly data reviews and semiannual program audits.

Quarterly data reviews shall be conducted so that the opacity data collected during the quarter is examined to assure that exceedance events are properly documented with an OIR and the required notifications were made. A quarterly opacity report shall be submitted to NYSDEC, postmarked by the 60th day following the end of each calendar quarter, that includes a tabulation of all



opacity exceedances, except for those excluded under 6 NYCRR Part 227-1. It shall also identify the causes of the excess opacity events (such as non-exempt exceedance, startup, shutdown, off line maintenance or equipment malfunction for example). The reports shall include a tabulation of opacity monitor downtime (except zero and span checks) and missing data.

Semiannual program audits shall consist of a thorough review of the opacity monitoring program to assure that all records are complete, and proper documentation is maintained of all OIR's and monitor maintenance. CEMS audits shall be verified by both daily zero and span checks and annual calibration error assessments. A report shall be submitted to the Department and be postmarked by the 60th day following the end of each 6 month calendar period of each year (June 30th and December 31st) summarizing the findings of the semiannual audit.

#### 8. Awareness, Communications & Training

Respondent shall continue conducting opacity awareness training for plant operators, maintenance personnel and supervisors at the station. Opacity awareness training shall include a review of opacity regulations, opacity monitoring requirements, a discussion of opacity monitoring equipment, an explanation of the source of opacity, the impact of changes to plant equipment and operating parameters upon opacity, and a discussion of corrective actions to be taken when excessive opacity levels occur. This training shall be conducted at least annually. The date training is conducted and the names of employees trained shall be kept in a log that can be made available to the Department upon request. Respondent's executive management shall be informed of opacity performance on a quarterly basis.

#### 9. Preventative Maintenance

Respondent shall perform preventative maintenance activities as needed. All such activities shall be documented on Corrective Action Sheets. These sheets shall be maintained on-site for five years. The preventative maintenance program shall include the following daily, weekly and scheduled outage activities:

##### DAILY:

a. Each opacity monitor automatically performs a zero and span calibration check every 24 hours according to 40 CFR 60, Appendix 13, Performance Specification 1.

b. Daily zero and span calibration data are reviewed. Six-minute opacity data from each unit are reviewed. The maintenance technicians correct any problems identified at



this time. If the problem cannot be corrected, a COMS maintenance consultant is contacted.

**WEEKLY:**

BPU Personnel review opacity calibration trending and six-minute opacity data trending. If a problem is suspected, the BPU Personnel take corrective action and if the problem is not resolved, a COMS consultant is contacted.

**MONTHLY:**

The BPU Personnel cleans the lenses of the COMS at each unit and performs any required maintenance.

**QUARTERLY:**

a. A COMS maintenance consultant performs opacity audits according to 40 CFR 60, PS 1. During the audit, the monitor alignment is checked and adjusted, if required, and the lenses are cleaned.

b. Opacity reports are generated from the COMS and submitted to NYSDEC Region 9 Air Pollution Control Engineer and the Central Office Division of Air Resources, Bureau of Stationary Sources.

**ANNUALLY:** A COMS maintenance consultant performs an opacity monitor response time test in accordance with 40 CFR 60, Appendix B, Performance Specification 1.

10. Root Cause Analysis and Corrective Actions  
Respondent shall identify deficiencies which cause opacity exceedances by means of root cause analysis annually. At the beginning of each calendar year, the prior year's opacity audit reports shall be reviewed to identify any consistent patterns for opacity exceedances. Patterns that are found shall be investigated and corrective actions (such as revised maintenance procedures, modified operating procedures, equipment upgrades and personnel refresher training for opacity awareness for example) shall be developed. These shall be summarized in a report to the Respondent's management and the Department.

The root cause analysis for calendar year 2010 shall be performed and submitted to the department within 90 days of signing this Order. Annual root cause analysis reports for calendar year 2011 and beyond are due by March 31st of the following year.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION



**Condition 38: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 38.1:**

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

Emission Unit: U-00003 Emission Point: 00003

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

**Item 38.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

- 1.) No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six-minute average) except for one six-minute period per hour of not more than 27 percent opacity.
- 2.) Each opacity event which exceeds the 20% opacity standard shall be reported as a deviation in the semi annual report. The details of each deviation shall be included in the semi annual report and include at least the date, time, initial opacity observations, corrective actions taken and follow up opacity observations.

Parameter Monitored: OPACITY  
Upper Permit Limit: 20 percent  
Reference Test Method: 40 CFR Part 60, appendix A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 60 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 39: Compliance Certification**  
**Effective for entire length of Permit**

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

**Item 39.1:**

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

Emission Unit: U-00004 Emission Point: 00004



Emission Unit: U-00020	Emission Point: 00020
Emission Unit: U-00020	Emission Point: 00021
Emission Unit: U-00022	Emission Point: 00022
Emission Unit: U-00023	Emission Point: 00023
Emission Unit: U-00027	Emission Point: 00027
Emission Unit: U-00028	Emission Point: 00028

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

**Item 39.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

- 1) No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity.
  
- 2) In the event the combustion installation experiences operational problems which could result in smoke, a trained opacity observer shall make an opacity observation. The opacity observer shall:
  - a) Observe the opacity from the emission point. Each opacity observation shall be performed at a location with the proper sun angle, background, and line of sight as required by EPA Method 9. The observer must be trained and knowledgeable regarding the effects on the visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).
  - b) If the instantaneous opacity is 10% or greater, then the permittee shall:
    - i) conduct an EPA Method 9 opacity observation for three consecutive 6-minute periods,
    - ii) conduct an inspection of the process and control device, and
    - iii) record in a log the date, time, staff name, results of each opacity/Method 9 observation, inspection findings, and the corrective actions taken. The log shall be made available for Department review upon request.



3) If any of the initial Method 9 6-minute average opacities exceed 20% then corrective actions shall be taken to reduce opacity below 20%. Another three consecutive 6-minute opacity observations shall be conducted and recorded after the corrective actions have been made, using EPA Method 9 to confirm opacity remains below 20%.

4.) Each event which exceeds the 20% opacity standard shall be reported as a deviation in the semiannual report. The details of each deviation shall be included in the semiannual report and include at least the date, time, initial opacity observations, corrective actions taken, and follow up opacity observations.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR Part 60, Appendix A, Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 40: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 227-1.4 (b)**

**Item 40.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Emission Point: 00003

**Item 40.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation which utilizes a continuous opacity monitoring system (COMS) shall include the following in their quarterly excess emission reports:

1) Magnitude, date, and time of each exceedence;

2) For each period of excess emissions, specific identification of the cause and corrective action taken;



- 3) Date, time, and duration of each period of COMS downtime, and the corrective action for each period of downtime;
- 4) Total time the COMS is required to record data during the reporting period;
- 5) The total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and
- 6) Such other requirements as the Department may deem necessary in order to enforce Article 19 of the Environmental Conservation Law (ECL).

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 60 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 41: NOx Ozone Season Emission Requirements  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 243-1.6 (c)**

**Item 41.1:**

As of the allowance transfer deadline for a control period, the owners and operators of each CAIR NOx Ozone Season source and each CAIR NOx Ozone Season unit at the source shall hold, in the source's compliance account, CAIR NOx Ozone Season allowances available for compliance deductions for the control period under section 243-6.5(a) in an amount not less than the tons of total nitrogen oxides emissions for the control period from all CAIR NOx Ozone Season units at the source, as determined in accordance with Subpart 243-8. The CAIR NOx ozone season is the period beginning May 1 of a calendar year, except as provided in section 243-1.6(c)(2), and ending on September 30 of the same year, inclusive.

A CAIR NOx Ozone Season unit shall be subject to the requirements under paragraph (c)(1) of this section for the control period starting on the later of May 1, 2009 or the deadline for meeting the unit's monitor certification requirements under sections 243-8.1(b)(1), (2), (3), or (7) and for each control period thereafter.

A CAIR NOx Ozone Season allowance shall not be deducted, for compliance with the requirements under paragraph (c)(1) of this section, for a control period in a calendar year before the year for which the CAIR NOx Ozone Season allowance was allocated.

CAIR NOx Ozone Season allowances shall be held in, deducted from, or transferred into or among CAIR NOx Ozone Season Allowance Tracking System accounts in accordance with Subparts 243-6, 243-7, and 243-9.

A CAIR NOx Ozone Season allowance is a limited authorization to emit one ton of nitrogen oxides in accordance with the CAIR NOx Ozone Season Trading Program. No provision of the CAIR NOx Ozone Season Trading Program, the CAIR permit application, the CAIR permit, or







**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 243-8.1**

**Item 45.1:**

The owners and operators, and to the extent applicable, the CAIR designated representative, of a CAIR NOx Ozone Season unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in this Subpart and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in section 243-1.2 and in 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR NOx Ozone Season unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 243-1.2. The owner or operator of a unit that is not a CAIR NOx Ozone Season unit but that is monitored under 40 CFR 75.72(b)(2)(ii) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR NOx Ozone Season unit.

'Requirements for installation, certification, and data accounting.' The owner or operator of each CAIR NOx Ozone Season unit shall:

- (1) install all monitoring systems required under this Subpart for monitoring NOx mass emissions and individual unit heat input (including all systems required to monitor NOx emission rate, NOx concentration, stack gas moisture content, stack gas flow rate, CO2 or O2 concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.71 and 40 CFR 75.72);
- (2) successfully complete all certification tests required under section 243-8.2 and meet all other requirements of this Subpart and 40 CFR Part 75 applicable to the monitoring systems under paragraph 243-8.1(a)(1); and
- (3) record, report, and quality-assure the data from the monitoring systems under paragraph (a)(1) of this section.

**Condition 46: Prohibitions**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 243-8.1**

**Item 46.1:**

No owner or operator of a CAIR NOx Ozone Season unit shall use any alternative monitoring system, alternative reference method, or any other alternative to any requirement of this Subpart without having obtained prior written approval in accordance with section 243-8.6.

No owner or operator of a CAIR NOx Ozone Season unit shall operate the unit so as to discharge, or allow to be discharged, NOx emissions to the atmosphere without accounting for all such emissions in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NOx Ozone Season unit shall disrupt the continuous emission monitoring system, any portion thereof, or any other approved emission monitoring method, and thereby avoid monitoring and recording NOx mass emissions discharged into the atmosphere or heat input, except for periods of recertification or periods when calibration, quality assurance



testing, or maintenance is performed in accordance with the applicable provisions of this Subpart and 40 CFR Part 75.

No owner or operator of a CAIR NO<sub>x</sub> Ozone Season unit shall retire or permanently discontinue use of the continuous emission monitoring system, any component thereof, or any other approved monitoring system under this Subpart, except under any one of the following circumstances:

- (i) during the period that the unit is covered by an exemption under section 243-1.5 that is in effect;
- (ii) the owner or operator is monitoring emissions from the unit with another certified monitoring system approved, in accordance with the applicable provisions of this Subpart and 40 CFR Part 75, by the department for use at that unit that provides emission data for the same pollutant or parameter as the retired or discontinued monitoring system; or
- (iii) the CAIR designated representative submits notification of the date of certification testing of a replacement monitoring system for the retired or discontinued monitoring system in accordance with section 243-8.2(d)(3)(i).

**Condition 47: Out of control periods**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 243-8.3**

**Item 47.1:**

This Condition applies to:

Emission Unit: U00003

Emission Unit: U00020

**Item 47.2:**

Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in Subpart D or Subpart H of, or appendix D or appendix E to, 40 CFR Part 75.

**Condition 48: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 243-8.3**

**Item 48.1:**

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

Emission Unit: U-00004

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

**Item 48.2:**

Compliance Certification shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Low Mass Emission (LME) Out of Control Periods for CAIR  
NOx Ozone Season Trading Program, 6NYCRR Part  
343-8.3

Whenever any low mass emissions monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75.19, data shall be substituted using the applicable missing data procedures in Subpart B, section 75.19 to 40 CFR Part 75. Note: Fuel flow meters used to determine heat input must meet the above QC/QA requirements.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 49: Quarterly reports  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 243-8.5 (d)**

**Item 49.1:**

The CAIR designated representative shall submit quarterly reports, as follows:

If the CAIR NOx Ozone Season unit is subject to an Acid Rain emissions limitation or a CAIR NOx emissions limitation or if the owner or operator of such unit chooses to report on an annual basis under this Subpart, the CAIR designated representative shall meet the requirements of Subpart H of 40 CFR Part 75 (concerning monitoring of NOx mass emissions) for such unit for the entire year and shall report the NOx mass emissions data and heat input data for such unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with:

(i) for a unit that commences commercial operation before July 1, 2007, the calendar quarter covering May 1, 2008 through June 30, 2008;

(ii) for a unit that commences commercial operation on or after July 1, 2007, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 243-8.1(b), unless that quarter is the third or fourth quarter of 2007 or the first quarter of 2008, in which case reporting shall commence in the quarter covering May 1, 2008 through June 30, 2008.

The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

For CAIR NOx Ozone Season units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Annual Trading Program, CAIR SO2 Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F



through I of 40 CFR Part 75 as applicable, in addition to the NO<sub>x</sub> mass emission data, heat input data, and other information required by this Subpart.

**Condition 50: Compliance certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 243-8.5 (e)**

**Item 50.1:**

The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

- (1) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications;
- (2) for a unit with add-on NO<sub>x</sub> emission controls and for all hours where NO<sub>x</sub> data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NO<sub>x</sub> emissions; and
- (3) for a unit that is reporting on a control period basis under subparagraph (d)(2)(ii) of this section, the NO<sub>x</sub> emission rate and NO<sub>x</sub> concentration values substituted for missing data under Subpart D of 40 CFR Part 75 are calculated using only values from a control period and do not systematically underestimate NO<sub>x</sub> emissions.

**Condition 51: CAIR NO<sub>x</sub> Annual Trading Program General Conditions  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 244-1**

**Item 51.1:**

- 1) As of midnight of March 1, or midnight of the first business day thereafter if March 1 is not a business day, the owners and operators shall hold, in their compliance account, Clean Air Interstate Rule (CAIR) NO<sub>x</sub> allowances available for compliance deductions for the previous control period (January 1 through December 31), in an amount not less than the total tons of nitrogen oxides emissions from all CAIR NO<sub>x</sub> units at the source during that control period. A CAIR NO<sub>x</sub> allowance shall not be deducted for a control period in a calendar year before the year for which the CAIR NO<sub>x</sub> allowance was allocated. [244-1.6(c)(1), 244-1.2(b)(5), 244-1.2(b)(36), 244-1.6(c)(3)]
- 2) The owners and operators shall hold in their compliance account, CAIR NO<sub>x</sub> allowances available for compliance deductions for the control period starting on the later of January 1, 2009 or the deadline for meeting a CAIR NO<sub>x</sub> unit's monitor certification requirements under section 244-8.1(b)(1), (2), or (5) and for each control period thereafter. [244-1.6(c)(2)]
- 3) If a CAIR NO<sub>x</sub> source emits nitrogen oxides during any control period in excess of the CAIR NO<sub>x</sub> emissions limitation, the owners and operators of the CAIR NO<sub>x</sub> source shall surrender the CAIR NO<sub>x</sub> allowances required for deduction under 6NYCRR Part 244-6.5(d)(1) and pay



any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this permit, the Act, and applicable State law. [(244-1.6(d))]

4) Unless otherwise provided, the owners and operators of the CAIR NO<sub>x</sub> source shall keep on site each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator: [244-1.6(e)]

(i) The certificate of representation under 6NYCRR Part 244-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 244-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 244-8, provided that to the extent that 6NYCRR Part 244-8 provides for a three year period for recordkeeping, the three year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR NO<sub>x</sub> Annual Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR NO<sub>x</sub> Annual Trading Program or to demonstrate compliance with the requirements of the CAIR NO<sub>x</sub> Annual Trading Program.

**Condition 52: Designated CAIR Representative  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 244-2**

**Item 52.1:**

1) Each Clean Air Interstate Rule (CAIR) NO<sub>x</sub> source shall have one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 244-2.2, with regard to all matters under the CAIR NO<sub>x</sub> Annual Trading Program. The CAIR designated representative shall be selected by an agreement binding on the owners and operators of the source and act in accordance with the certification statement in 6NYCRR Part 244-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 244-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR NO<sub>x</sub> source represented in all matters pertaining to the CAIR NO<sub>x</sub> Annual Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source. [244-2.1(a), (b) & (c)]

(2) Each submission under the CAIR NO<sub>x</sub> Annual Trading Program shall be submitted, signed, and certified by the CAIR designated representative for each CAIR NO<sub>x</sub> source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify



that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment." [244-2.1(e)]

**Condition 53: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 244-8**

**Item 53.1:**

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

Emission Unit: U-00004

Regulated Contaminant(s):

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

**Item 53.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Low Mass Emitter (LME) Monitoring and Reporting for CAIR  
NOx Annual Trading Program, 6NYCRR Part 244-8

(1) The owners and operators, and to the extent applicable, the CAIR designated representative shall comply with all recordkeeping and reporting requirements in this condition, the applicable recordkeeping and reporting requirements under 40 CFR 75, and the requirements of 6NYCRR Part 244-2.1(e)(1).

(2) The CAIR designated representative shall submit quarterly reports of the NOx mass emissions data and heat input data for each CAIR NOx unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 6NYCRR Part 244-8.1(b).

(3) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

(4) For CAIR NOx units that are also subject to an Acid Rain emissions limitation or the CAIR NOx Ozone Season



Trading Program, CAIR SO<sub>2</sub> Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NO<sub>x</sub> mass emission data, heat input data, and other information required by this Subpart.

(5) 'Compliance certification.' The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that [244-8.5(e)]:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of 6NYCRR Part 244 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

(ii) for a unit with add-on NO<sub>x</sub> emission controls and for all hours where NO<sub>x</sub> data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NO<sub>x</sub> emissions.

(6) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements (QC/QA) or data validation requirements of 40 CFR part 75, data shall be substituted using the applicable missing data procedures in Subpart B, section 75.19. [244-8.3(a)]  
Note: Fuel flow meters used to determine heat input must meet the above QC/QA requirements.

(7) The owner or operator of a unit qualified to use the low mass emissions (LME) excepted methodology under 40 CFR 75.19 shall meet the applicable certification and recertification requirements in 40 CFR 75.19(a)(2) and 75.20(h). If the owner or operator of such a unit elects to certify a fuel flowmeter system for heat input determination, the owner or operator shall also meet the certification and recertification requirements in 40 CFR 75.20(g). [244-8.2] Details of the fuel flowmeter certification requirements and quality assurance measures are in sections 2.1.5 and 2.1.6 of Appendix D to 40 CFR Part 75. Recertification of an approved low mass emissions methodology is not required as stated in 40 CFR Part 75.20(h)(5).



Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL TOTAL  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 54: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 244-8**

**Item 54.1:**

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

Emission Unit: U-00003

Emission Unit: U-00020

Regulated Contaminant(s):

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

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Monitoring and Reporting NOX emissions

(1) The owners and operators, and to the extent applicable, the CAIR designated representative shall comply with all recordkeeping and reporting requirements in this condition, the applicable recordkeeping and reporting requirements under 40 CFR 75, and the requirements of 6NYCRR Part 244-2.1(e)(1).

(2) The CAIR designated representative shall submit quarterly reports of the the NOx mass emissions data and heat input data for each CAIR NOx unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under 6NYCRR Part 244-8.1(b), unless that quarter is the third or fourth quarter of 2007, in which case reporting shall commence in the quarter covering January 1, 2008 through March 31, 2008.

(3) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the



report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.73(f).

(4) For CAIR NO<sub>x</sub> units that are also subject to an Acid Rain emissions limitation or the CAIR NO<sub>x</sub> Ozone Season Trading Program, CAIR SO<sub>2</sub> Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the NO<sub>x</sub> mass emission data, heat input data, and other information required by this Subpart.

(5) 'Compliance certification.' The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of 6NYCRR Part 244 and 40 CFR Part 75, including the quality assurance procedures and specifications; and

(ii) for a unit with add-on NO<sub>x</sub> emission controls and for all hours where NO<sub>x</sub> data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate NO<sub>x</sub> emissions.

(6) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR part 75, data shall be substituted using the applicable missing data procedures in Subpart D or Subpart H of, or appendix D or appendix E to 40 CFR part 75. [ 244-8.3(a) ]

(7) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under 6NYCRR Part 244-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record NO<sub>x</sub> mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b) .



Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system, and any excepted NOx monitoring system under appendix E to 40 CFR part 75, under 6NYCRR Part 244-8.1(a)(1) are subject to the recertification requirements in 40 CFR 75.20(g)(6). [224-8.2(d)(2)

Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL TOTAL  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 55: CAIR General and Permit Requirments  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 245-1**

**Item 55.1:**

(1) Each CAIR SO<sub>2</sub> source must have a permit issued by the department pursuant to 6NYCRR Parts 201 and 621 of this title; and shall have a CAIR permit issued pursuant to 6NYCRR Part 245-3 by the Department and operate the source in compliance with such CAIR permit. Each CAIR permit must contain all applicable requirements for the CAIR SO<sub>2</sub> Trading Program and shall be a complete and separable portion of the permit. (245-1 and 245-3)

(2) As of midnight of March 1, or midnight of the first business day thereafter (if March 1 is not a business day) for a control period, the owners and operators of each CAIR SO<sub>2</sub> source shall hold, in the source's compliance account, a tonnage equivalent in CAIR SO<sub>2</sub> allowances available for compliance deductions for the control period (January 1 through December 31) as determined in accordance with 6NYCRR Part 245-6.5(a) and (b), not less than the tons of total sulfur dioxide emissions for the control period from all CAIR SO<sub>2</sub> units at the source, as determined in accordance with 6NYCRR Part 245-8. (245-1.2(b)(5), 245-1.6(c)(1), 245-1.2(b)(36))

(3) A CAIR SO<sub>2</sub> allowance shall not be deducted, for compliance with the requirements under paragraph (2) of this section, for a control period in a calendar year before the year for which the CAIR SO<sub>2</sub> allowance was allocated. (245-1.6(c)(3))

(4)'Excess emissions requirements.' If a CAIR SO<sub>2</sub> source emits sulfur dioxide during any control period in excess of the CAIR SO<sub>2</sub> emissions limitation, the owners and operators of the



source shall surrender the CAIR SO<sub>2</sub> allowances required for deduction under 6NYCRR Part 245-6.5(d)(1) and pay any fine, penalty, or assessment or comply with any other remedy imposed, for the same violations, under the Act or applicable State law. Each ton of such excess emissions and each day of such control period shall constitute a separate violation of this Subpart, the Act, and applicable State law. (245-1.6(d))

(5) Unless otherwise provided, the owners and operators of the CAIR SO<sub>2</sub> source shall keep on site at the source each of the following documents for a period of five years from the date the document is created. This period may be extended for cause, at any time before the end of five years, in writing by the department or the Administrator:

(i) The certificate of representation under 6NYCRR Part 245-2.4 for the CAIR designated representative for the source and all documents that demonstrate the truth of the statements in the certificate of representation; provided that the certificate and documents shall be retained on site at the source beyond such five-year period until such documents are superseded because of the submission of a new certificate of representation under 6NYCRR Part 245-2.4 changing the CAIR designated representative.

(ii) All emissions monitoring information, in accordance with 6NYCRR Part 245-8, provided that to the extent that 6NYCRR Part 245-8 provides for a three-year period for recordkeeping, the three-year period shall apply.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CAIR SO<sub>2</sub> Trading Program.

(iv) Copies of all documents used to complete a CAIR permit application and any other submission under the CAIR SO<sub>2</sub> Trading Program or to demonstrate compliance with the requirements of the CAIR SO<sub>2</sub> Trading Program. (245-1.6(e))

**Condition 56: Designated CAIR Representative  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 245-2**

**Item 56.1:**

1) Each CAIR SO<sub>2</sub> source shall have one and only one CAIR designated representative and may have one alternate representative, as per 6NYCRR Part 245-2.2, with regard to all matters under the CAIR SO<sub>2</sub> Trading Program. The CAIR designated representative of the CAIR SO<sub>2</sub> source shall be selected by an agreement binding on the owners and operators of the source and all CAIR SO<sub>2</sub> units at the source and shall act in accordance with the certification statement in 6NYCRR Part 245-2.4(a)(4)(iv). Upon receipt by the Administrator of a complete certificate of representation under 6NYCRR Part 245-2.4, the CAIR designated representative of the source shall represent and, by his or her representations, actions, inactions, or submissions, legally bind each owner and operator of the CAIR SO<sub>2</sub> source represented and each CAIR SO<sub>2</sub> unit at the source in all matters pertaining to the CAIR SO<sub>2</sub> Trading Program, notwithstanding any agreement between the CAIR designated representative and such owners and operators. The owners and operators shall be bound by any decision or order issued to the CAIR designated representative by the department, the Administrator, or a court regarding the source or unit. [245-2.1(a), (b) & (c)]

(2) Each submission under the CAIR SO<sub>2</sub> Trading Program shall be submitted, signed, and



certified by the CAIR designated representative for each CAIR SO2 source on behalf of which the submission is made. Each such submission shall include the following certification statement by the CAIR designated representative: "I am authorized to make this submission on behalf of the owners and operators of the source or units for which the submission is made. I certify under penalty of law that I have personally examined, and am familiar with, the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment." [245-2.1(e)]

**Condition 57: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 245-8**

**Item 57.1:**

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

Emission Unit: U-00004

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Low Mass Emitter (LME) - Monitoring and Reporting for  
CAIR SO2 Trading Program, 6NYCRR Part 245-8:

1) The owners and operators, and to the extent applicable, the Clean Air Interstate Rule (CAIR) designated representative, of a CAIR SO2 unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. For purposes of complying with such requirements, the definitions in section 245-1.2 and 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR SO2 unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 245-1.2. The owner or operator of a unit that is not a CAIR SO2 unit but that is monitored under 40 CFR 75.16(b)(2) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR SO2 unit. [245-8.1]



2) The owner or operator of each CAIR SO<sub>2</sub> unit shall:  
[245-8.1(a)]

(i) install all monitoring systems required under this Subpart for monitoring SO<sub>2</sub> mass emissions and individual unit heat input (including all systems required to monitor SO<sub>2</sub> concentration, stack gas moisture content, stack gas flow rate, CO<sub>2</sub> or O<sub>2</sub> concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.11 and 40 CFR 75.16);

(ii) successfully complete all certification tests required under Part 245-8.2 and meet all other requirements of this section and 40 CFR Part 75 applicable to the monitoring systems under this section; and

(iii) record, report, and quality-assure the data from the monitoring systems under paragraph of this section.

3) The owner or operator shall meet the monitoring system certification and other requirements of section 245-8.1(a)(1) and (2) on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the monitoring systems under section 245-8.1(a)(1) on and after the following dates.  
[245-8.1(b)]

(i) For the CAIR SO<sub>2</sub> unit that commences commercial operation before July 1, 2008, by January 1, 2009.

(ii) For the CAIR SO<sub>2</sub> unit that commences commercial operation on or after July 1, 2008, by the later of the following dates: January 1, 2009; or 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the unit commences commercial operation.

4) The owner or operator of a unit qualified to use the low mass emissions (LME) excepted methodology under 40 CFR 75.19 shall meet the applicable certification and recertification requirements in 40 CFR 75.19(a)(2) and 75.20(h). If the owner or operator of such a unit elects to certify a fuel flowmeter system for heat input determination, the owner or operator shall also meet the certification and recertification requirements in 40 CFR 75.20(g). [245-8.2(e)] Details of the fuel flowmeter certification requirements and quality assurance measures are in sections 2.1.5 and 2.1.6 of Appendix D to 40 CFR Part 75. Recertification of an approved low mass emissions methodology is not required, as stated in 40 CFR Part 75.20(h)(5).

5) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be



substituted using the applicable missing data procedures in Subpart B, section 75.19 to 40 CFR Part 75.

[245-8.3(a)] Note: Fuel flow meters used to determine heat input must meet the above QC/QA requirements.

6) The CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 245-8.3, the applicable recordkeeping and reporting requirements in Subparts F and G of 40 CFR Part 75, and the requirements of section 245-2.1(e)(1).

[245-8.5(a)]

7) The owner or operator of a CAIR SO<sub>2</sub> unit shall comply with requirements of 40 CFR 75.62 for monitoring plans.

[245-8.5(b)]

8) The CAIR designated representative shall submit an application to the department within 45 days after completing all initial certification or recertification tests required under section 245-8.2, including the information required under 40 CFR 75.63.

[245-8.5(c)]

9) The CAIR designated representative shall submit quarterly reports of the SO<sub>2</sub> mass emissions data and heat input data for each CAIR SO<sub>2</sub> unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with:

[245-8.5(d)(1)]

i) the calendar quarter covering January 1, 2009 through March 31, 2009 for a unit that commences commercial operation before July 1, 2008; or

ii) for a unit that commences commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 245-8.1(b), unless that quarter is the third or fourth quarter of 2008, in which case reporting shall commence in the quarter covering January 1, 2009 through March 31, 2009.

10) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.64. [245-8.5(d)(2)]

11) For CAIR SO<sub>2</sub> units that are also subject to an Acid Rain emissions limitation or the CAIR NO<sub>x</sub> Annual Trading Program, CAIR NO<sub>x</sub> Ozone Season Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly



reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the SO<sub>2</sub> mass emission data, heat input data, and other information required by this Subpart. [245-8.5(d)(3)]

12) The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: [245-8.5(e)]

- i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications; and
- ii) for a unit with add-on SO<sub>2</sub> emission controls and for all hours where SO<sub>2</sub> data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not systematically underestimate SO<sub>2</sub> emissions.

Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL TOTAL  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 58: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR Subpart 245-8**

**Item 58.1:**

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

Emission Unit: U-00003

Emission Unit: U-00020

Regulated Contaminant(s):  
CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:



Monitoring and Reporting SO<sub>2</sub> emissions:

1) The owners and operators, and to the extent applicable, the Clean Air Interstate Rule (CAIR) designated representative, of a CAIR SO<sub>2</sub> unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 245-8 and in 40 CFR Part 75, Subparts F and G. For purposes of complying with such requirements, the definitions in section 245-1.2 and 40 CFR 72.2 shall apply, and the terms "affected unit," "designated representative," and "continuous emission monitoring system" (or "CEMS") in 40 CFR Part 75 shall be deemed to refer to the terms "CAIR SO<sub>2</sub> unit," "CAIR designated representative," and "continuous emission monitoring system" (or "CEMS") respectively, as defined in section 245-1.2. The owner or operator of a unit that is not a CAIR SO<sub>2</sub> unit but that is monitored under 40 CFR 75.16(b)(2) shall comply with the same monitoring, recordkeeping, and reporting requirements as a CAIR SO<sub>2</sub> unit. [245-8.1]

2) The owner or operator of each CAIR SO<sub>2</sub> unit shall:  
[245-8.1(a)]

(i) install all monitoring systems required under this Subpart for monitoring SO<sub>2</sub> mass emissions and individual unit heat input (including all systems required to monitor SO<sub>2</sub> concentration, stack gas moisture content, stack gas flow rate, CO<sub>2</sub> or O<sub>2</sub> concentration, and fuel flow rate, as applicable, in accordance with 40 CFR 75.11 and 40 CFR 75.16);

(ii) successfully complete all certification tests required under Part 245-8.2 and meet all other requirements of this section and 40 CFR Part 75 applicable to the monitoring systems under this section; and

(iii) record, report, and quality-assure the data from the monitoring systems under paragraph of this section.

3) The owner or operator shall meet the monitoring system certification and other requirements of section 245-8.1(a)(1) and (2) on or before the following dates. The owner or operator shall record, report, and quality-assure the data from the monitoring systems under section 245-8.1(a)(1) on and after the following dates.  
[245-8.1(b)]

(i) For the CAIR SO<sub>2</sub> unit that commences commercial operation before July 1, 2008, by January 1, 2009.

(ii) For the CAIR SO<sub>2</sub> unit that commences commercial operation on or after July 1, 2008, by the later of the following dates: January 1, 2009; or 90 unit operating days or 180 calendar days, whichever occurs first, after the date on which the unit commences commercial



operation.

4) Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission monitoring system under section 245-8.1(a)(1) that may significantly affect the ability of the system to accurately measure or record SO<sub>2</sub> mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or appendix B to 40 CFR Part 75, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20(b). Furthermore, whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each continuous emission monitoring system whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20(b). Examples of changes to a continuous emission monitoring system that require recertification include: replacement of the analyzer, complete replacement of an existing continuous emission monitoring system, or change in location or orientation of the sampling probe or site. Any fuel flowmeter system under section 245-8.1(a)(1) is subject to the recertification requirements in 40 CFR 75.20(g)(6). [245-8.2(d)(2)]

5) Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in Subpart D of or appendix D to 40 CFR Part 75. [245-8.3(a)]

6) The CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 245-8.3, the applicable recordkeeping and reporting requirements in Subparts F and G of 40 CFR Part 75, and the requirements of section 245-2.1(e)(1). [245-8.5(a)]

7) The owner or operator of a CAIR SO<sub>2</sub> unit shall comply with requirements of 40 CFR 75.62 for monitoring plans. [245-8.5(b)]

8) The CAIR designated representative shall submit an application to the department within 45 days after completing all initial certification or recertification tests required under section 245-8.2, including the information required under 40 CFR 75.63. [245-8.5(c)]



9) The CAIR designated representative shall submit quarterly reports of the SO<sub>2</sub> mass emissions data and heat input data for each CAIR SO<sub>2</sub> unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with: [245-8.5(d)(1)]

- i) the calendar quarter covering January 1, 2009 through March 31, 2009 for a unit that commences commercial operation before July 1, 2008; or
- ii) for a unit that commences commercial operation on or after July 1, 2008, the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 245-8.1(b), unless that quarter is the third or fourth quarter of 2008, in which case reporting shall commence in the quarter covering January 1, 2009 through March 31, 2009.

10) The CAIR designated representative shall submit each quarterly report to the Administrator within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.64. [245-8.5(d)(2)]

11) For CAIR SO<sub>2</sub> units that are also subject to an Acid Rain emissions limitation or the CAIR NO<sub>x</sub> Annual Trading Program, CAIR NO<sub>x</sub> Ozone Season Trading Program, or the Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Units (6 NYCRR Part 246), quarterly reports shall include the applicable data and information required by Subparts F through I of 40 CFR Part 75 as applicable, in addition to the SO<sub>2</sub> mass emission data, heat input data, and other information required by this Subpart. [245-8.5(d)(3)]

12) The CAIR designated representative shall submit to the Administrator a compliance certification (in a format prescribed by the Administrator) in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that: [245-8.5(e)]

- i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR Part 75, including the quality assurance procedures and specifications; and
- ii) for a unit with add-on SO<sub>2</sub> emission controls and for all hours where SO<sub>2</sub> data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B to 40 CFR Part 75 and the substitute data values do not





30 days after such date;

3) a notification of the actual date of initial start up, post marked within 15 days after such date;

4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.

**Condition 62: Recordkeeping requirements.  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A**

**Item 62.1:**

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Condition 63: Facility files for subject sources.  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A**

**Item 63.1:**

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations;all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

**Condition 64: Compliance with Standards and Maintenance Requirements  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.11(d), NSPS Subpart A**

**Item 64.1:**

At all times, including periods of startup, shutdown, and malfunction, owners and operators of this facility shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control



practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department and the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

**Condition 65: Circumvention.**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A**

**Item 65.1:**

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

**Condition 66: Continuous Monitoring Requirements**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(a), NSPS Subpart A**

**Item 66.1: For the purposes of this section, 40 CFR Part 60.13, all continuous monitoring systems required under applicable subparts of 40 CFR Part 60 shall be subject to the provisions of this section, upon promulgation of performance specifications for continuous monitoring systems under appendix B to this part, 40 CFR Part 60, and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to this part, unless otherwise specified in an applicable subpart or by the Administrator.**

**Condition 67: Monitoring Requirements**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(d), NSPS Subpart A**

**Item 67.1: Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified. For continuous monitoring systems measuring opacity of emissions, the optical surfaces exposed to the effluent gases shall be cleaned prior to performing the zero and span drift adjustments except that for systems using automatic zero adjustments. The optical surfaces shall be cleaned when the cumulative automatic zero compensation exceeds 4 percent opacity.**

**Condition 68: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(d), NSPS Subpart A**

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



**Item 68.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00020

**Item 68.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified.

Reference Test Method: 40 CFR 60 Appendix B

Monitoring Frequency: DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 69:     Monitoring Requirements**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(e), NSPS Subpart A**

**Item 69.1: Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under paragraph 40 CFR 60.13 (d) of this section, all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows:**

(1) All continuous monitoring systems referenced by paragraph 40 CFR 60.13 (c) of this section for measuring opacity of emissions shall complete 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.

(2) All continuous monitoring systems referenced by paragraph 40 CFR 60.13 (c) of this section for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

**Condition 70:     Compliance Certification**  
**Effective for entire length of Permit**



**Applicable Federal Requirement:40CFR 60.13(e), NSPS Subpart A**

**Item 70.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00020

**Item 70.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40CFR60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows: All continuous monitoring systems referenced by 40CFR60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing, and data recording) for each successive 15-minute period.

Reference Test Method: 40CFR60 Appendices

Monitoring Frequency: CONTINUOUS

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 71:     Monitoring Requirements**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.13(h), NSPS Subpart A**

**Item 71.1: Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O<sub>2</sub> or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.**

**Condition 72:     Compliance Certification**  
**Effective for entire length of Permit**



**Applicable Federal Requirement:40CFR 60.48c(g), NSPS Subpart Dc**

**Item 72.1:**

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

Emission Unit: U-00022

Emission Unit: U-00027

**Item 72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 73: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 63, Subpart DDDDD**

**Item 73.1:**

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

Emission Unit: U-00003  
Process: 001

Emission Point: 00003  
Emission Source: 00001

Emission Unit: U-00003  
Process: 001

Emission Point: 00003  
Emission Source: 00004

Emission Unit: U-00003  
Process: 01A

Emission Point: 00003  
Emission Source: 00001

Emission Unit: U-00004  
Process: 10G

Emission Point: 00004  
Emission Source: 00007

Emission Unit: U-00022  
Process: 010

Emission Point: 00022  
Emission Source: 00022

Emission Unit: U-00027  
Process: GAS

Emission Point: 00027  
Emission Source: 00027

Emission Unit: U-00028

Emission Point: 00028



Process: 28G

Emission Source: 00028

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers and Process Heaters [40 CFR Part 63.7480, subpart DDDDD (5D's)] will apply to the boilers on site provided the Facility remains a major source of Hazardous Air Pollutants after the first substantive compliance deadline for the affected units, which is January 31, 2016. The rule is effective on April 1, 2013 and the compliance date is January 31, 2016. No conditions were included in the permit at this time because the regulation was not effective when the permit was written. However, JBPU must comply with all applicable requirements in 5D's whether conditions are in the permit or not. The rule will apply to the following boilers:

- EU 3, Boiler #9 - Large existing solid fuel boiler
- EU 3, Boiler #12 - Large existing solid fuel boiler
- EU 4, boiler #10 - Large existing natural gas (gas 1) fuel boiler, with oxygen trimming
- EU 22, small boiler #22 - Large existing natural gas (gas 1) fuel boiler
- EU 27, mid size gas boiler #27 - Large existing natural gas (gas 1) fuel boiler, with oxygen trimming
- EU 28, DA (deaeration) Tank boiler - Small new natural gas (gas 1) fuel boiler

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 74: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR Part 64**

**Item 74.1:**

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

- |                        |                       |
|------------------------|-----------------------|
| Emission Unit: U-00005 | Emission Point: 00005 |
| Emission Unit: U-00006 | Emission Point: 00006 |
| Emission Unit: U-00007 | Emission Point: 00007 |



Emission Unit: U-00008

Emission Point: 00008

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

I. Compliance Assurance Monitoring (CAM) Description for particulate matter from coal and ash handling equipment:

The particulate emissions from the fuel and ash handling systems are subject to 40 CFR Part 64, CAM based on the following criteria:

1. Air Pollutant - Particulate Matter (PM) emitted from fuel and ash handling emission control equipment
2. Applicable Regulation - 6 NYCRR Part 212.4(c)
3. Emission Limit - 0.050 grains of PM/dry standard cubic feet
4. Control equipment - fabric filter
5. Emissions - the pre-control emission from from each of the following emission units (EU) and associated emission points (EP) is greater than 100 tons per year (tpy), however the post-control emissions for EU 5/EP 5 are about 1.0 tpy, EU 6/EP 6 are about 1.1 tpy, EU 7/EP 7 are about 4.5 tpy, and for EU 8/EP 8 are about 6.6 tpy.

II. CAM Program:

1) The facility shall monitor compliance with the emission limit by undertaking the following at least once daily at each emission point that is operating:

a) The facility shall observe the visible emissions from each emission point in the emission unit(s). Each visible emission observation shall be performed at a location with the proper sun angle, background, and line of sight as required by EPA Method 9. The observer must be trained and knowledgeable regarding the effects on the visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).

b) If any visible emissions exceed five percent opacity, the permittee shall conduct an inspection of the process(s) and control device(s), recording any problems observed, the cause, and what corrective actions were taken.

(c) The date, time, staff name and results of each



visible emission observation and inspection shall be recorded in a log. The log shall be made available for Department review upon request.

(d) Any visible emission with greater than 5% opacity is an excursion.

2.) For each excursion that cannot be corrected, the department shall be notified at the Region 9 Office in Buffalo of the excursion by fax within 2 business days of the follow up opacity observation. The notification shall include the initial and final opacity, the cause of the excursion, and the corrective actions taken.

3.) If corrective actions do not eliminate visible emissions with an opacity greater 5%, than an emission stack test for particulate matter may be required by the department. Such testing shall to be conducted within 60 days of notification.

4.) If a stack test is required, a compliance test protocol shall be submitted to the department for approval at least 30 days before the scheduled testing, and a test report must be submitted to the department within 60 days of the testing, according to 6NYCRR Part 202-1.

5.) A Quality Improvement Plan (QIP) shall be developed and implemented when total opacity excursions are recorded for more than 5 percent of the operating time for each emission point during the semi-annual reporting period. An exceedance of this threshold shall be reported as a deviation in the semiannual and annual compliance reports. The elements of a QIP are included in a 40 CFR Part 64.8 permit condition.

Monitoring Frequency: DAILY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 75: Elements of a Quality Improvement Plan  
Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR 64.8**

**Item 75.1:**

A) Elements of a Quality Improvement Plan (QIP) [40 CFR 64.8(b)]:

(1) The owner or operator shall maintain a written QIP, if required, and have it available for inspection.

(2) The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:

(i) Improved preventive maintenance practices.



- (ii) Process operation changes.
- (iii) Appropriate improvements to control methods.
- (iv) Other steps appropriate to correct control performance.
- (v) More frequent or improved monitoring (only in conjunction with one or more steps under paragraphs (i) through (iv) above).

B) If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined [40 CFR 64.8(c)].

C) Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act [40 CFR 64.8(e)].

**Condition 76: Facility Subject to Title IV Acid Rain Regulations and Permitting  
Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR Part 72**

**Item 76.1: This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.**

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

**Condition 77: Emission Point Definition By Emission Unit  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 77.1:**

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

Emission Unit: U-00003

Emission Point: 00003

Height (ft.): 195                      Diameter (in.): 120  
NYTMN (km.): 4668.894    NYTME (km.): 148.728    Building: SA CARLSON

**Item 77.2:**

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

Emission Unit: U-00004

Emission Point: 00004

Height (ft.): 195                      Diameter (in.): 84  
NYTMN (km.): 4668.884    NYTME (km.): 148.725    Building: SA CARLSON

**Item 77.3:**



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

Emission Unit: U-00005

Emission Point: 00005  
Height (ft.): 62 Length (in.): 30 Width (in.): 30  
NYTMN (km.): 4668.905 NYTME (km.): 148.724 Building: SA CARLSON

**Item 77.4:**

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

Emission Unit: U-00006

Emission Point: 00006  
Height (ft.): 62 Length (in.): 30 Width (in.): 30  
NYTMN (km.): 4668.903 NYTME (km.): 148.727 Building: SA CARLSON

**Item 77.5:**

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

Emission Unit: U-00007

Emission Point: 00007  
Height (ft.): 126 Diameter (in.): 8  
NYTMN (km.): 4668.91 NYTME (km.): 148.715 Building: SA CARLSON

**Item 77.6:**

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

Emission Unit: U-00008

Emission Point: 00008  
Height (ft.): 100 Length (in.): 21 Width (in.): 13  
NYTMN (km.): 4668.901 NYTME (km.): 148.732 Building: SA CARLSON

**Item 77.7:**

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

Emission Unit: U-00020

Emission Point: 00020  
Height (ft.): 200 Diameter (in.): 144  
NYTMN (km.): 4668.892 NYTME (km.): 148.746 Building: SA CARLSON

Emission Point: 00021  
Height (ft.): 200 Diameter (in.): 144  
NYTMN (km.): 4668.869 NYTME (km.): 148.739 Building: SA CARLSON

**Item 77.8:**

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

Emission Unit: U-00022

New York State Department of Environmental Conservation

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



Emission Point: 00022  
Height (ft.): 77 Diameter (in.): 28  
NYTMN (km.): 4668.919 NYTME (km.): 148.729 Building: SA CARLSON

**Item 77.9:**

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

Emission Unit: U-00023

Emission Point: 00023  
Height (ft.): 72 Diameter (in.): 20  
NYTMN (km.): 4668.894 NYTME (km.): 148.737 Building: SA CARLSON

**Item 77.10:**

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

Emission Unit: U-00027

Emission Point: 00027  
Height (ft.): 50 Diameter (in.): 36  
NYTMN (km.): 4668.919 NYTME (km.): 148.729 Building: PB Bldg

**Item 77.11:**

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

Emission Unit: U-00028

Emission Point: 00028  
Height (ft.): 87 Diameter (in.): 16  
NYTMN (km.): 4668.91 NYTME (km.): 148.715 Building: SA CARLSON

**Condition 78: Process Definition By Emission Unit  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR Subpart 201-6**

**Item 78.1:**

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

Emission Unit: U-00003  
Process: 001 Source Classification Code: 1-01-002-02

Process Description:

Firing bituminous coal in two dry bottom, wall fired boilers (#9 and #12) that exhaust through one common stack (EP 00003). Electrostatic precipitators control particulate emissions from each boiler. One boiler (#9) is classified as a large boiler, the other boiler is classified as a very large boiler (#12). A Powdered Activated Carbon injection system (00PAC) and a Consol water spray system (00WTR) are used as needed to facilitate the control of mercury emissions from boiler



#12. Process 001 will be replaced by Process 01A upon the permanent shutdown of boiler #12, no later than 01/01/2014.

Emission Source/Control: 00001 - Combustion  
Design Capacity: 190 million Btu per hour

Emission Source/Control: 00004 - Combustion  
Design Capacity: 297 million Btu per hour

Emission Source/Control: 00003 - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 00006 - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 00PAC - Control  
Control Type: ACTIVATED CARBON INJECTION

Emission Source/Control: 00WTR - Control  
Control Type: WATER INJECTION

**Item 78.2:**

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

Emission Unit: U-00003

Process: 007

Source Classification Code: 1-01-005-01

Process Description:

This process is for boiler startup using #2 fuel oil. Two dry bottom, wall fired boilers (#9 and #12) are operated and emit to one common stack. Each boiler has four burners which are ignited using #2 fuel oil upon boiler startup, each oil burner is rated at 5 mmBtu/hr. Process 007 will be replaced by Process 07A upon the permanent shutdown of boiler #12, no later than 01/01/2014.

Emission Source/Control: 00001 - Combustion  
Design Capacity: 190 million Btu per hour

Emission Source/Control: 00004 - Combustion  
Design Capacity: 297 million Btu per hour

Emission Source/Control: 00003 - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: 00006 - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

**Item 78.3:**

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

Emission Unit: U-00003



Process: 01A Source Classification Code: 1-01-002-02

Process Description:

Firing bituminous coal in a dry bottom wall fired boiler (#9) that exhaust through stack (EP 00003). Electrostatic precipitators control particulate emissions from the boiler, which is classified as a large boiler. Process 01A replaces Process 001 upon the permanent shutdown of boiler #12 which will occur on or before 01/01/2014.

Emission Source/Control: 00001 - Combustion  
Design Capacity: 190 million Btu per hour

Emission Source/Control: 00003 - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

**Item 78.4:**

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

Emission Unit: U-00003

Process: 07A Source Classification Code: 1-01-005-01

Process Description:

This process is for boiler startup using #2 fuel oil. One dry bottom wall fired boiler (#9) is operated and emits to stack EP 00003. The boiler has four burners which are ignited using #2 fuel oil upon boiler startup, each oil burner is rated at 5 mmBtu/hr. Process 07A replaces Process 007 upon the permanent shutdown of boiler #12 which will occur on or before 01/01/2014.

Emission Source/Control: 00001 - Combustion  
Design Capacity: 190 million Btu per hour

Emission Source/Control: 00003 - Control  
Control Type: ELECTROSTATIC PRECIPITATOR

**Item 78.5:**

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

Emission Unit: U-00004

Process: 10G Source Classification Code: 1-01-006-01

Process Description:

Firing natural gas in one wall fired boiler (#10) that exhausts through stack (emission point) 00004. Low NOx burners and flue gas recirculation control NOx emissions from the boiler. Boiler #10 is classified as a large boiler. This boiler will use Part 75 Low Mass Emission (LME) methodology to estimate SO<sub>2</sub>, NO<sub>x</sub> and CO<sub>2</sub> mass emissions, NO<sub>x</sub> emission rate (lb/MMBtu), and unit heat input instead of a Part 75 continuous emissions monitoring system (CEMS) as allowed by 40 CFR 75.19.

Emission Source/Control: 00007 - Combustion



Design Capacity: 198 million Btu per hour

Emission Source/Control: FGR10 - Control  
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: LNB10 - Control  
Control Type: LOW NOx BURNER

**Item 78.6:**

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

Emission Unit: U-00005  
Process: 003 Source Classification Code: 3-99-999-94  
Process Description:

Fly ash collected in the ESPs is pneumatically transported from the ESPs to one of two ash collection silos. Ash from the ESPs is collected in a receiver on top of the silo, which is then discharged via gravity into the silo. The air displaced by the ash is exhausted through a bag filter. The system operates approximately once every 2 minutes when the ash collection system is in operation. The system is operated about 5 hours per 8 hour shift.

Emission Source/Control: 0000E - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 0000D - Process

**Item 78.7:**

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

Emission Unit: U-00006  
Process: 004 Source Classification Code: 3-99-999-94  
Process Description:

Fly ash collected in the ESPs is pneumatically transported from the ESPs to one of two ash collection silos. Flyash and bottom ash are collected via the transport system in a receiver on top of the silo, which is then discharged via gravity into the silo. The air displaced by the ash is exhausted through a bag filter. The system operates approximately once every 2 minutes when the ash collection system is in operation. The system is operated about 3 hour per 8 hour shift.

Emission Source/Control: 00010 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 0000F - Process

**Item 78.8:**

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



Emission Unit: U-00007  
Process: 005 Source Classification Code: 3-99-999-94

Process Description:  
The ash handling system collects flyash from the ESPs and pneumatically transports it to the ash collection silos. The pneumatic transport air is exhausted out emission point 00007 through a bag filter. The cleaned air from the bag filter is drawn through a mechanical exhauster (fan) and then discharged to the atmosphere.

Emission Source/Control: 00012 - Control  
Control Type: FABRIC FILTER

Emission Source/Control: 00011 - Process

**Item 78.9:**

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

Emission Unit: U-00008  
Process: 006 Source Classification Code: 3-99-999-94

Process Description:  
Coal is transported on a conveyor system through the plant. Air displaced by coal in the coal silo enters the conveyor system, where the air in the conveyor corridors is collected, filtered through a bagfilter and exhausted out emission point 8. When the bag collectors are intermittently cleaned with a compressed air pulse jet, the collected coal dust is discharged to the coal bunker for use.

Emission Source/Control: 00013 - Process

**Item 78.10:**

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

Emission Unit: U-00020  
Process: DB1 Source Classification Code: 1-01-006-01

Process Description:  
This process is the exclusive firing of the duct burner using natural gas. (This process is not actually possible since the duct burner cannot fire without the turbine. The process was defined because 40 CFR 60 subpart Db applies to the duct burner only.)

Emission Source/Control: 00021 - Combustion  
Design Capacity: 144 million Btu per hour

**Item 78.11:**

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

Emission Unit: U-00020



Process: GT1 Source Classification Code: 2-02-002-03

Process Description:

This process is a GE LM6000 gas turbine and Deltak HRSG with supplemental firing of a duct burner, with both the turbine and duct burner firing natural gas. NOx from the turbine is controlled by water injection.

Emission Source/Control: 00020 - Combustion  
Design Capacity: 430 million Btu per hour

Emission Source/Control: 00021 - Combustion  
Design Capacity: 144 million Btu per hour

Emission Source/Control: 00019 - Control  
Control Type: STEAM OR WATER INJECTION

**Item 78.12:**

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

Emission Unit: U-00020

Process: GT2 Source Classification Code: 2-02-002-03

Process Description:

This process is the GE LM6000 combustion gas turbine only, firing natural gas. NOx from the turbine is controlled by water injection. The duct burner is not operating.

Emission Source/Control: 00020 - Combustion  
Design Capacity: 430 million Btu per hour

Emission Source/Control: 00019 - Control  
Control Type: STEAM OR WATER INJECTION

**Item 78.13:**

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

Emission Unit: U-00022

Process: 010 Source Classification Code: 1-01-006-02

Process Description:

This process is a 23.3 mmBtu/hr boiler firing natural gas.

Emission Source/Control: 00022 - Combustion  
Design Capacity: 23.3 million Btu per hour

**Item 78.14:**

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

Emission Unit: U-00023

Process: ET1 Source Classification Code: 2-01-001-01

Process Description:

A 750 kW emergency backup combustion gas turbine

New York State Department of Environmental Conservation

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



generator set that will provide black start capability for the LM6000 combustion gas turbine. This turbine will fire only distillate oil and will operate only when the primary power source at the SA Carlson station has been rendered inoperable by an emergency situation and for weekly testing. Operations will be limited to 500 hours per year.

Emission Source/Control: ET001 - Combustion  
Design Capacity: 13.4 million Btu per hour

**Item 78.15:**

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

Emission Unit: U-00027  
Process: GAS Source Classification Code: 1-02-006-02  
Process Description:

This emission unit is a package boiler with a fuel input rate of 73.5 MMBtu/hr that operates to produce hot water for the district heating service. The boiler is natural gas fired with low NOx burners and is operated up to 8760 hours per year.

Emission Source/Control: 00027 - Combustion  
Design Capacity: 73.5 million Btu per hour

**Item 78.16:**

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

Emission Unit: U-00028  
Process: 28G Source Classification Code: 1-02-006-03  
Process Description:

This process involves the combustion of natural gas in the DA (deaeration) Tank steam boiler.

Emission Source/Control: 00028 - Combustion  
Design Capacity: 3.2 million Btu per hour

**Condition 79: Emission Unit Permissible Emissions Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 79.1:**

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

Emission Unit: U-00020  
CAS No: 000630-08-0  
Name: CARBON MONOXIDE



PTE(s): 180,000 pounds per year

Emission Unit: U-00022

CAS No: 000630-08-0

Name: CARBON MONOXIDE

PTE(s): 17,400 pounds per year

Emission Unit: U-00020

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 28,000 pounds per year

Emission Unit: U-00022

CAS No: 0NY075-00-5

Name: PM-10

PTE(s): 1,600 pounds per year

Emission Unit: U-00003

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 290,000 pounds per year

Emission Unit: U-00004

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 36,420 pounds per year

Emission Unit: U-00020

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 320,000 pounds per year

Emission Unit: U-00022

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 10,000 pounds per year

**Condition 80: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 231-11.2 (b)**

**Item 80.1:**

The Compliance Certification activity will be performed for:



Emission Unit: U-00003

**Item 80.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, or for a modification with a project emission potential which when added to emissions excluded in accordance with Clause 231-4.1(b)(40)(i)(c) of this Part is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, the facility owner or operator, in addition to complying with any requirements under Part 201 of this Title, must maintain the following information for a minimum of five years:

- (1) A description of the modification.
- (2) An identification of each new or modified emission source(s) including the associated processes and emission unit.
- (3) The calculation of the project emission potential for each modified emission source(s) including supporting documentation.
- (4) The date the modification commenced operation.

These recordkeeping requirements apply to exempt and trivial activities but do not affect their exempt or trivial permitting status under Subpart 201-3 of this Title. The facility must submit these records to the Department, upon the Department's request.

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 81: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR Part 64**

**Item 81.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Emission Point: 00003



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

**Item 81.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

I. CAM Description for particulate matter from boiler #9 (Emission Unit U-000030) after the permanent shut down of boiler #12:

The particulate emissions from emission unit (EU) U-00003, emission point (EP) 00003 for boiler 9 (commonly called the north stack) is subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) based on the following criteria:

1. Air Pollutant - Particulate Matter (PM)
2. Applicable Regulation - 6NYCRR Part 227-1.2(a)(4)
3. Emission Limit - 0.32 lbs/mmBtu
4. Control equipment – boiler #9 has a cold side electrostatic precipitator (ESP) equipped with three fields
5. Pre-control emissions - greater than 100 tons per year (tpy), actual emissions after controls are still greater than 100 tpy from boiler #9.

This permit condition takes effect when boiler #12 permanently shuts down on or before 01/01/2014 and replaces a similar condition for boilers #9 and #12.

II. CAM Program for particulate matter from boiler #9 (Emission Unit U-000030) after the permanent shutdown of boiler #12:

The permittee shall:

1. Conduct a particulate matter performance emission once every 4 Quality Assured (QA) operating quarters, where a QA operating quarter is defined as a calendar quarter in which the stack operates more than 168 hours, per Part 75. Thus the PM testing will be on the same schedule as the Relative Accuracy Testing Audit (RATA) required by the Acid Rain Program. The Department may request more frequent compliance testing if it is determined necessary. The testing shall follow EPA Method 5 procedures in 40 CFR Part 60, Appendix A. The permittee shall submit a stack test protocol at least 30 days prior to the scheduled testing date for Department review and approval, and submit a stack test report within 60 days of completing the testing.



2. Use opacity readings from the continuous opacity monitoring system as an indicator of continuous particulate matter control device performance. A review of historical opacity data shows that the north stack, EP 00003, typically operates at less than 5% opacity. Therefore, if any hourly average opacity measurement is greater than 5% at EP 00003 it will be an excursion. For each excursion the permittee shall investigate the cause(s), shall initiate corrective actions as necessary to minimize the occurrence of excursions, and record the cause(s), corrective action, date, time, the actual opacity average, and the threshold value of 5% opacity.

3. Use secondary voltage measured by voltage monitoring equipment at each electrostatic precipitator (ESP) as an indicator of the continuous particulate matter control device performance. A review of historical secondary voltage data shows that the average hourly voltage for the ESP, calculated as the average voltage of all three ESP fields in the ESP, are typically above 31.07 kilovolts (KV) for boiler/ESP 9. If the one-hour average voltage falls below the threshold voltage value above it will be considered an excursion. The permittee must investigate the cause(s) of each excursion, shall initiate corrective actions as necessary to minimize the occurrence of excursions, and record the cause(s), corrective action, date, time, ESP, the actual voltage, and the respective threshold voltage.

4. The minimum data availability requirement for valid data collection for each averaging period, and the minimum data availability requirement for the averaging periods in the reporting period is 95% of the emission point operating time [64.6(b)(4)]. Hourly opacity averages shall be calculated from the 6-minute opacity averages for each clock hour. The ESP secondary voltage shall be measured and recorded at least four times an hour. The readings must be evenly spaced through the hour [40 CFR 64.3(b)(4)(ii)].

5. Semiannually, the permittee shall submit a report that:

- Summarizes the number, duration and cause of excursions or exceedances, and the corrective actions taken [40 CFR 64.9(a)(2)(i)],
- Summarizes the number, duration and cause for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks) [40 CFR 64.9(a)(2)(ii)], and
- Reports the boiler (stack) operating hours during



the reporting period and summarizes the excursions as a percentage of the operating hours.

6. A Quality Improvement Plan (QIP) shall be developed and implemented when there are opacity excursions, or voltage excursions for more than 5% of the operating hours during the semiannual reporting period. An exceedance of the 5% threshold shall be reported as a deviation in the semiannual and annual compliance reports [40 CFR 64.8(a)]. The elements of a QIP are included in a 40 CFR Part 64.8 permit condition in this permit.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.32 pounds per million Btus  
Reference Test Method: EPA Method 5  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 82: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40 CFR Part 64**

**Item 82.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003

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

**Item 82.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

I. CAM Description for particulate matter from boiler #9 and boiler # 12 (emission Unit U-000030) prior to when boiler #12 permanently shuts down:

The particulate emissions from emission unit (EU) U-00003, emission point (EP) 00003 for boilers 9 & 12 (commonly called the north stack) are subject to 40 CFR Part 64, Compliance Assurance Monitoring (CAM) based on the following criteria:

1. Air Pollutant - Particulate Matter (PM)



2. Applicable Regulation - 6NYCRR Part 227-1.2(a)(4)
3. Emission Limit - 0.26 lbs/mmBtu
4. Control equipment - each boiler has a cold side electrostatic precipitator (ESP) equipped with three fields
5. Pre-control emissions - greater than 100 tons per year (tpy), actual emissions after controls are still greater than 100 tpy from each emission point.

II. CAM Program for particulate matter from boiler #9 and boiler # 12 (emission Unit U-000030) prior to when boiler #12 permanently shuts down:

The permittee shall:

1. Conduct a particulate matter performance emission once every 4 Quality Assured (QA) operating quarters, where a QA operating quarter is defined as a calendar quarter in which the stack operates more than 168 hours, per Part 75. Thus the PM testing will be on the same schedule as the Relative Accuracy Testing Audit (RATA) required by the Acid Rain Program. The testing shall follow EPA Method 5 procedures in 40 CFR Part 60, Appendix A. The permittee shall submit a stack test protocol at least 30 days prior to the scheduled testing date for Department review and approval, and submit a stack test report within 60 days of completing the testing.
2. Use opacity readings from the continuous opacity monitoring system as an indicator of continuous particulate matter control device performance. A review of historical opacity data shows that the north stack, EP 00003, typically operates at less than 5% opacity. Therefore, if any hourly average opacity measurement is greater than 5% at EP 00003 it will be an excursion. For each excursion the permittee shall investigate the cause(s), shall initiate corrective actions as necessary to minimize the occurrence of excursions, and record the cause(s), corrective action, date, time, the actual opacity average, and the threshold value of 5% opacity.
3. Use secondary voltage measured by voltage monitoring equipment at each electrostatic precipitator (ESP) as an indicator of the continuous particulate matter control device performance. A review of historical secondary voltage data shows that the average hourly voltage for the ESPs, calculated as the average voltage of all three ESP fields in each ESP, are typically above 31.07 kilovolts (KV) for boiler/ESP 9 and 31.83 KV for boiler/ESP 12. If the one-hour average voltage falls below the threshold



voltage values above it will be considered an excursion. The permittee must investigate the cause(s) of each excursion, shall initiate corrective actions as necessary to minimize the occurrence of excursions, and record the cause(s), corrective action, date, time, ESP, the actual voltage, and the respective threshold voltage.

4. The minimum data availability requirement for valid data collection for each averaging period, and the minimum data availability requirement for the averaging periods in the reporting period is 95% of the emission points operating time [64.6(b)(4)]. Hourly opacity averages shall be calculated from the 6-minute opacity averages for each clock hour. The ESP secondary voltage shall be measured and recorded at least four times an hour. The readings must be evenly spaced through the hour [40 CFR 64.3(b)(4)(ii)].

5. Semiannually, the permittee shall submit a report that:

- a. Summarizes the number, duration and cause of excursions or exceedances, and the corrective actions taken [40 CFR 64.9(a)(2)(i)],
- b. Summarizes the number, duration and cause for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks) [40 CFR 64.9(a)(2)(ii)], and
- c. Reports the boiler operating hours during the reporting period and summarizes the excursions as a percentage of the operating hours.

6. A Quality Improvement Plan (QIP) shall be developed and implemented when there are opacity excursions, or voltage excursions for more than 5% of the operating hours during the semiannual reporting period. An exceedance of the 5% threshold shall be reported as a deviation in the semiannual and annual compliance reports [40 CFR 64.8(a)]. The elements of a QIP are included in a 40 CFR Part 64.8 permit condition in this permit.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.26 pounds per million Btus  
Reference Test Method: EPA Method 5  
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 83: Compliance Certification**



**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 227-1.2 (a) (4)**

**Item 83.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003  
Process: 001

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

**Item 83.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emission limit for Emission Unit U-00003 (boiler #9) after the permanent shutdown of boiler #12.

- 1) No person shall cause or allow an emission into the outdoor atmosphere of particulates in excess of the permissible emission rates (specified in Table 1 of subdivision (b) of 6 NYCRR 227-1.2) from any stationary combustion installation burning coal and/or wood, coke, or any solid fuel derived from coal.
- 2) The maximum combined heat input to this stack is 190 mmBtu/hr. Using the equation  $E = 1.0/(p^{0.22})$  from 6 NYCRR 227 subpart 1, section 2, table 1, footnote b, where 'E' is the permissible emission rate, and 'p' is the maximum heat input capacity in mmBtu/hr, the permissible emission rate is 0.315, which rounds to 0.32 lbs/mmBtu.
- 3) While firing coal, the facility shall conduct a compliance emission test on each boiler for particulates based on methods in 6NYCRR Parts 202-1.1 & 202-1.3, or equivalent. Stack testing shall be done according to EPA Method 5 and shall follow Department guidance for stack testing of stationary combustion installations. The compliance test shall be conducted once every 4 Quality Assured (QA) operating quarters, where a QA operating quarter is defined as a calendar quarter in which the stack operates more than 168 hours, per Part 75. Thus the PM testing will be on the same schedule as the Relative Accuracy Testing Audit (RATA) required by the Acid Rain Program.
- 4) The semiannual compliance reports shall include either





emission rate is 0.256, which rounds to 0.26 lbs/mmBtu.

3) While firing coal, the facility shall conduct a compliance emission test on each boiler for particulates based on methods in 6NYCRR Parts 202-1.1 & 202-1.3, or equivalent. Stack testing shall be done according to EPA Method 5 and shall follow Department guidance for stack testing of stationary combustion installations. The compliance test shall be conducted once every 4 Quality Assured (QA) operating quarters, where a QA operating quarter is defined as a calendar quarter in which the stack operates more than 168 hours, per Part 75. Thus the PM testing will be on the same schedule as the Relative Accuracy Testing Audit (RATA) required by the Acid Rain Program.

4) The semiannual compliance reports shall include either  
1) when the next particulate stack test is planned for, or  
2) the date the last stack test was conducted and if it showed compliance or not.

5) This condition expires and is replaced by a similar condition for just boiler #9 when boiler #12 permanently shuts down on or before 01/01/2014.

Parameter Monitored: PARTICULATES  
Upper Permit Limit: 0.26 pounds per million Btus  
Reference Test Method: EPA Method 5  
Monitoring Frequency: ANNUALLY  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 85: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 85.1:**

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 227-2.4 (b) (1) (ii)

**Item 85.2:**

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



**Item 85.3:**

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 85.4:**

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 85.5:**

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 85.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003  
Process: 001                                      Emission Source: 00001

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

**Item 85.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

NOx Emission Cap for Boiler #9 on and after July 1,  
2014

1) This condition establishes federal enforceability capping as part of the NOx RACT Plan for boiler #9 by curtailment of NOx emissions from the boiler.

2) The electric power plant has accepted an annual NOx emission limit of 145.0 tons per year (tpy) on boiler #9 of the north stack (EP 00003, emission source 00001). This cap becomes effective on July 1, 2014. Boiler #12 (Emission Source 00004) currently exhaust to the north stack too, but will have been permanently shut down by July 1, 2014. By capping NOx emissions to 145 tpy the installation of NOx controls on boiler 9 are not cost effective, as analyzed in the October 2011 NOx RACT



Compliance Plan that was submitted with the permit renewal application.

3) As provided for in 6NYCRR subpart 201-7, a source owner or operator may elect to accept federally enforceable permit terms and conditions which restrict or cap emissions from a stationary source or emission unit in order to avoid being subject to one or more applicable requirements that the source or unit would otherwise be subject to. NOx emissions from this emission unit are limited to 145.0 tpy, on a 52-week rolling total basis. Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week total NOx emissions measured by the NOx CEMS.

4) The periodic compliance reporting shall include the previous 52-week NOx emissions from this emission unit summed for each week of the reporting period and comparing actual emissions to the 145.0 ton limit.

Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 145.0 tons  
Reference Test Method: 40 CFR Part 75  
Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL TOTAL ROLLED WEEKLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 6 calendar month(s).

**Condition 86: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (b) (1) (i)**

**Item 86.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003  
Process: 001                                      Emission Source: 00001

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

**Item 86.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT limit for boiler #9 prior to July 1, 2014

1) The #9 boiler (emission source 00001) is a " large boiler" as defined under Part 227-2 and fires pulverized



coal.

a) During the ozone season, May 1 through September 30 prior to July 1, 2014, emissions of NO<sub>x</sub> from this boiler shall not exceed 0.50 lbs of NO<sub>x</sub> per mmBtu during any 24 hour daily averaging period. The stack daily 24 hour average NO<sub>x</sub> emission rate shall be recorded and reported quarterly, identifying each time period when the #9 boiler is operated alone.

b) During the non-ozone season, October 1 through April 30 prior to July 1, 2014, the NO<sub>x</sub> emissions from this boiler shall not exceed 0.50 lbs of NO<sub>x</sub> per mmBtu during any 30 day rolling averaging period. The rolling 30 day average NO<sub>x</sub> emissions from boiler #9 shall be calculated from the 24 hour daily average NO<sub>x</sub> emission rates when boiler #9 operates alone. The stack rolling 30 day average NO<sub>x</sub> emission rate shall be recorded and reported quarterly.

2) NO<sub>x</sub> emissions from the boiler stack shall be monitored continuously by continuous emissions monitoring systems (CEMS). However, up until January 1, 2014 boiler #12 (emission source 00004) is a "very large boiler" which also emits to the same stack (emission point 00003) - prior to the CEMS location, so continuous monitoring of NO<sub>x</sub> emissions from the # 9 boiler alone may not always be possible. Periodic monitoring for NO<sub>x</sub> emissions from boiler #9 shall be conducted using the stack CEMS.

3) The facility shall report each exceedance of the 0.50 lbs of NO<sub>x</sub> per mmBtu limit occurring during each quarter, when boiler #9 is operating alone, if any, and an explanation on what caused the exceedance and what steps have been or will be taken to remedy the exceedance. If the boiler did not operate alone, or did not operate at all state so.

4) The facility has opted to follow the procedures in 40 CFR 75 to demonstrate compliance with 6 NYCRR 227-2. In addition, per 6 NYCRR 227-2.6(b)(5), emission rates to demonstrate compliance with 6 NYCRR 227-2 may be calculated and reported as described in 6 NYCRR 227-2.6(b)(3)(i)(b).

Manufacturer Name/Model Number: TECO 42i  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.50 pounds per million Btus  
Reference Test Method: 40 CFR 75, App. A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION



Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 87: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (a) (1) (i)**

**Item 87.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003  
Process: 001                                      Emission Source: 00004

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

**Item 87.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT Limit for boiler #12 prior to January 1, 2014

1) The #12 boiler (emission source 00004) is a "very large boiler" as defined under Part 227-2 which is a wall fired dry bottom pulverized coal boiler.

a) During the ozone season, May 1 through September 30 prior to January 1, 2014, emissions of NOx from this boiler shall not exceed 0.45 lbs of NOx per mmBtu during any 24 hour daily averaging period. The stack daily 24 hour average NOx emission rate shall be recorded and reported quarterly, identifying each time period when the #12 boiler is operated alone.

b) During the non-ozone season, October 1 through April 30 prior to January 1, 2014, the NOx emissions from this boiler shall not exceed 0.45 lbs of NOx per mmBtu during any 30 day rolling averaging period. The rolling 30 day average NOx emissions from boiler #12 shall be calculated from the 24 hour daily average NOx emission rates when boiler #12 operates alone. The stack rolling 30 day average NOx emission rate shall be recorded and reported quarterly.

2) NOx emissions from the boiler stack shall be monitored continuously by continuous emissions monitoring systems (CEMS). However, boiler #9 (emission source 00001) is a "large boiler" which also emits to the same stack



(emission point 00003) - prior to the CEMS location, so continuous monitoring of NOx emissions from the # 12 boiler alone may not always be possible. Periodic monitoring for NOx emissions from boiler #12 shall be conducted using the stack CEMS.

3) The facility shall report each exceedance of the 0.45 lbs of NOx per mmBtu limit occurring during each quarter, when boiler #12 is operating alone, if any, and an explanation on what caused the exceedance and what steps have been or will be taken to remedy the exceedance. If the boiler did not operate alone, or did not operate at all state so.

4) The facility has opted to follow the procedures in 40 CFR 75 to demonstrate compliance with 6 NYCRR 227-2. In addition, per 6 NYCRR 227-2.6(b)(5), emission rates to demonstrate compliance with 6 NYCRR 227-2 may be calculated and reported as described in 6 NYCRR 227-2.6(b)(3)(i)(b).

Manufacturer Name/Model Number: TECO 42i  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.45 pounds per million Btus  
Reference Test Method: 40 CFR 75, App. A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 88: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 249.1 (c) (2)**

**Item 88.1:**  
The Compliance Certification activity will be performed for:

Emission Unit: U-00003	Emission Point: 00003
Process: 001	Emission Source: 00004

**Item 88.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

The facility has opted to permanently shut down boiler #12 on or before January 1, 2014 in order to be exempted from the Best Available retrofit Technology (BART) requirements for this boiler (6NYCRR Part 249). The



Department must be notified within 15 days of shutting down boiler #12.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 89: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 89.1:**

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

6 NYCRR 231-11.2 (c)

**Item 89.2:**

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

**Item 89.3:**

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

**Item 89.4:**

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

**Item 89.5:**

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

**Item 89.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00004

Regulated Contaminant(s):

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

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



**Item 89.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

- 1) The heat input to boiler #10 is limited to 607,000 million British thermal units per year (MMBtu/year) on a 52-week rolling total basis. This limitation is being taken to avoid New Source Review and to avoid additional monitoring, recordkeeping, and reporting requirements under the Reasonable Possibility Requirements of 6NYCRR Part 231-11(c). This heat input limitation will keep the Potential to Emit for all contaminants from boiler 10 below 50% of the Significant Project Thresholds in 6NYCRR Part 231-13. This is associated with the conversion of boiler 10 from firing pulverized coal to exclusively natural gas.
- 2) The weekly heat input will be determined in accordance with 40 CFR 75.19(c)(3)(ii) using a fuel flow meter that shall be certified and maintained according to 40 CFR Part 75, Appendix D.
- 3) Report on a semiannual basis the weekly and 52-week rolling total heat input.
- 4) This heat input limit effectively limits NOx emissions to 18.2 tons per year (tpy), using the NOx RACT compliance rate of 0.06 lb NOx/mmBtu. This limitation reduces NOx emissions below the existing 145 tpy NOx cap on the south stack, EP 00004, that was established when the gas turbine (EU 00020) was originally permitted, and thus replaces the 145 tpy cap.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NATURAL GAS

Upper Permit Limit: 607,000 million British thermal units per year

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 90: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement: 40CFR 60, NSPS Subpart Y**



**Item 90.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00008

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

**Item 90.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

- 1.) 40 CFR Part 60 Subpart Y applies to the following operations: coal processing and conveying equipment, coal storage systems, and coal transfer and loading systems. The 20% opacity limit contained in 40 CFR 60.254(a) applies if any of the above operations are constructed, reconstructed, or modified on or before April 28, 2008.
- 2) The permittee shall monitor compliance of all process exhaust vents and openings in the crusher tower, coal truck unloading station, coal silo, coal bunkers, and coal conveyance system, including but not limited to emission point 00008 for opacity by undertaking the following at least once during each day the process is in operation:
  - a) Observe the visible emissions from each emission point in this emission unit. Each visible emission observation shall be performed at a location with the proper sun angle, background, and line of sight as required by EPA Method 9. The observer must be trained and knowledgeable regarding the effects on the visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).
  - b) If any visible emissions are observed the permittee shall:
    - i) conduct an EPA Method 9 opacity observation for three consecutive 6-minute periods,
    - ii) conduct an inspection of the process and control device, and
    - iii) record in a log the date, time, staff name, results of each visible emission/Method 9 observation, inspection findings, and the corrective actions taken. The log shall be made available for Department review upon request.
- 3) If any of the initial Method 9 6-minute average opacities exceed 20% then corrective actions shall be



taken to reduce opacity below 20%. Another three consecutive 6-minute opacity observations shall be conducted after the corrective actions have been made, using EPA Method 9 to confirm opacity remains below 20%.

4.) Each event which exceeds the 20% opacity standard shall be reported as a deviation in the semi-annual report. The details of each deviation shall be included in the semi-annual report and include at least the date, time, initial opacity observations, corrective actions taken, and follow up opacity observations.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR Part 60, Appendix A, Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 91: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 201-7.1**

**Item 91.1:**

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 231-2.2 (a) (4)  
40 CFR 52.21

**Item 91.2:**

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

**Item 91.3:**

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 91.4:**

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 91.5:**

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 91.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

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

**Item 91.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

- 1) NOx emissions from this emission unit are limited to 160.0 tons/yr, on a 52-week rolling basis.
- 2) This cap combined with the 5.0 ton/yr NOx cap on emission unit U-00022 and with the 125.5 ton/yr of NOx ERCs generated by curtailment (145 ton per year cap) of the existing boilers in emission unit U-00004 (boilers 10 and 11) (Permit ID 9-0608-00053/00025) results in a net emission increase of NOx for the gas turbine project which is less than the 40 ton/yr significant net emission increase threshold for NOx. Therefore, the gas turbine project will not be subject to the control, emissions offset, or modeling requirements of 6 NYCRR subpart 231-2 (non-attainment) or 40 CFR 52.21 (PSD review).
- 3) Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week NOx emissions as measured by the CEMS. Emission calculations will be performed on the same basis as required by 40 CFR 75.
- 4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 160.0 tons.





Regulated Contaminant(s):

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

**Item 92.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) PM-10 emissions from this emission unit are limited to 14.0 tons/yr, on a 52-week rolling basis.

2) This cap combined with the 0.8 ton PM-10/yr cap on emission unit U-00022 (auxiliary boiler) resulted in a net emission increase of PM-10 for the gas turbine project that was less than the 15 ton/yr significant net emission increase threshold for PM-10. Therefore, the gas turbine project is not subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.

3) Compliance with the cap limit shall be demonstrated based on emission factors developed from once per permit term stack testing at both stacks. Record keeping needs will be based on the outcome of the stack test. The following two options may result from testing:

a) If the maximum hourly emission rate of PM-10 from EU U-00020 (gas turbine) is demonstrated not to exceed 3.2 lb/hr, the maximum PTE for this emission unit will be 14 ton/yr. Following acceptance of the stack test results by the department and with the concurrence of the department, under these circumstances no ongoing record keeping will be required to demonstrate compliance with the PM-10 cap.

b) If the maximum hourly emission rate exceeds 3.2 lb/hr, following acceptance of the stack test results by the department and with the concurrence of the department regarding the emission factor(s) to be used, compliance shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions based on the accepted emission factors. Emission calculations shall be conducted weekly. Total emissions for the previous 52-week period shall be computed weekly and both the weekly and 52-week totals shall be logged in a manner acceptable to the department.

c) Background - The initial testing on the simple cycle stack (EP 20) was conducted on 3/14/02 and reported



a 5.03 lb PM-10/hour emission rate. The initial testing on the combined cycle stack (EP 21) was conducted on 5/7/02 and reported a 3.54 lb PM-10/hour emission rate. The PTE using these emission rates was greater than 14.0 tpy, so the permittee tracked operation and PM-10 emissions. Work was performed on the stacks, and then the simple cycle stack (EP 20) was retested on 7/23/04 and reported a 3.1 lb PM-10/hour emission rate. The combined cycle stack (EP 21) was retested on 7/21/04 and reported a 1.8 lb PM-10/hour emission rate. The PTE using the retested emission rates is below 14.0 tpy so the permittee was able to suspend ongoing record keeping to show compliance with the cap.

4) As part of the semi-annual compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. If on going record keeping is required above, the certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 14.0 tons. If on going record keeping is not required above, the certification shall explain why.

Parameter Monitored: PM-10

Upper Permit Limit: 14.0 tons per year

Reference Test Method: EPA Methods 5/201A & 202

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 93: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 201-7.1**

**Item 93.1:**

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

40 CFR 52.21

**Item 93.2:**

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

**Item 93.3:**

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



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 93.4:**

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 93.5:**

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 93.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

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

**Item 93.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1) Once a permit term an emission test must be conducted to determine the current PM-10 emission factors for this source, so that uncontrolled potential to emit (PTE) of PM-10 can be determined and the appropriate record keeping requirements may be ascertained for the PM-10 emission cap (see record keeping/maintenance procedures monitoring compliance certification activity cited under 6NYCRR Part 201-7, for emission unit U-00020, regulated contaminant PM-10).

2) By way of background, the PM-10 emissions from this source are capped at 14.0 tons/52-week period so the gas turbine project would not be subject to the control or modeling requirements of 40 CFR 52 (Prevention of Significant Deterioration (PSD) review) when it was constructed in year 2000.

3) A stack test protocol must be submitted not less than 30 days prior to the emission test.



4) A test report must be submitted to the department within 60 days following completion of testing.

5) Semi-annually report when the last emission test(s) were completed and if the results demonstrated compliance, or when the next emission test will be conducted.

Parameter Monitored: PM-10

Upper Permit Limit: 14.0 tons per year

Reference Test Method: EPA Methods 5/201A & 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 94: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 201-7.1**

**Item 94.1:**

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

40 CFR 52.21

**Item 94.2:**

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

**Item 94.3:**

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 94.4:**

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 94.5:**

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 94.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 94.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1) CO emissions from this emission unit are limited to 90.0 ton/yr, on a 52-week rolling basis.
- 2) This cap combined with the 8.7 ton/yr cap on emission unit U-00022 (auxiliary boiler) results in a net emission increase of CO for the gas turbine project that is less than the 100 ton/yr significant net emission increase threshold for CO. Therefore the project will not be subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.
- 3) To meet the record keeping and monitoring requirements of this condition the owner or operator shall install, certify, calibrate, operate, and maintain, in accordance with all the requirements of 40 CFR 60 Appendices B and F a CO CEMS (consisting of a CO pollutant concentration monitor and an O<sub>2</sub> or CO<sub>2</sub> diluent gas monitor) with an automated data acquisition and handling system for measuring and recording CO concentration (in ppm), O<sub>2</sub> or CO<sub>2</sub> concentration (in percent O<sub>2</sub> or CO<sub>2</sub>) and CO emission rate discharged to the atmosphere, on both the simple cycle and combined cycle stacks.
- 4) Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week CO emissions as measured by the CEMS. CO emissions in lbs/hr shall be determined by multiplying together the CO emission rate in lbs/mmBtu and the hourly heat input rate in mmBtu/hr.
  - (i) Determination of the CO emission rate in lbs/hr shall be performed in a manner acceptable to the department,
  - (ii) Determination of the heat input rate shall be identical to that used for the NO<sub>x</sub> emission rate calculations under 40 CFR 75.



5) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52-week emissions summed for each week in the reporting period, and comparing them to the 90.0 ton per year emission limit.

Manufacturer Name/Model Number: Horiba ENDA-E4320L

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 90.0 tons per year

Reference Test Method: 40 CFR Part 60 Appendices B, PS 4

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 95: Documents the Use of ERCs for EU U-00020, the Gas Turbine Effective for entire length of Permit**

**Applicable Federal Requirement: 6 NYCRR 231-2.4 (a) (1)**

**Item 95.1:**

This Condition applies to Emission Unit: U-00020

**Item 95.2:**

1) This condition documents the applicant's use of emission reduction credits for emission unit U-00020, the gas turbine. As required, the applicant will maintain records of NOx emissions from EU U-00004 to verify that the curtailment which generated the ERCs is being maintained.

2) Gas Turbine project description: the existing electric power plant (4 coal boilers) added a GE LM6000 gas turbine generator system, with a nominal capacity of 43 MW. The gas turbine exhausts directly to an exhaust stack (simple cycle) or to a heat recovery steam generator (HRSG)(combined cycle). The HRSG has a duct burner providing supplemental heat, up to 144 mmBtu/hr. NOx emissions from the turbine are controlled by water injection.

3) NOx actual emissions from EU U-00020 are limited to 160 ton/yr. NOx actual emissions from EU U-00022, which are also part of the gas turbine project, are limited to 5 ton/yr. The NOx ERCs (125.5 tons) used for the gas turbine project as part of a net emission increase determination of non-applicability of 6 NYCRR subpart 231-2 were created by accepting a NOx emission limit of 145 ton/yr at EU U-00004 (DEC application Id No. 9-0608-00053/00025).

4) Contaminant Emission Increase Data:

CAS No. of the Nonattainment Contaminant for which ERCs are being used as Offsets: 0NY210-00-0.

Contaminant Name: Oxides of Nitrogen.

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



Project Emission Potential (PEP): 320,000 lbs/yr from EU-00020.

5) Statement of Compliance: As required by 6 NYCRR part 231-2.4(a)(2)(i), the applicant has checked the box under this section of the application indicating that the compliance statement has been read and that the applicant is in agreement with the provisions regarding compliance. The statement of compliance is stated in the application as follows: "All facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order."

6) Source of Emission Reduction Credit - facility:

Name: Samuel A. Carlson Generating Station

Address: 136 Steele Street, City of Jamestown, NY 14701-6438

Application Id: 9-0608-00053/00025

Emission Unit Number: U-00004

CAS No. of the Nonattainment Contaminant for which ERCs are being Created:

0NY210-00-0

Contaminant Name: Oxides of Nitrogen

ERC Netting: 251,000 lbs/yr

**Condition 96: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.332(a)(1), NSPS Subpart GG**

**Item 96.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

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

**Item 96.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NSPS NOx Limit for LM6000 combustion turbine (emission Unit - U-00020)

1) For both combined cycle and simple cycle operations of the gas turbine, the NOx emission standard is 115 part per million by volume at 15% oxygen on a dry basis with a 4-hour rolling average. [40 CFR 60.332(a)(1), 60.334(j)(1)(iii)(A)]

2) The above limit was calculated using the equation [0.0075(14.4/Y)+F] from 40 CFR 60.332(a)(1), where Y is



the manufactures rated heat rate at manufactures rated load (full load) - 9.4 kilojoules per watt-hr, as provided by the permittee. No allowance for the nitrogen content of the natural gas was taken by the permittee, therefore the fuel bound nitrogen, F, is considered to be zero (0).

3.) As an alternative to monitoring water injection to fuel ratios, the permittee choose to install, certify, maintain, operate, and quality-assure a continuous emission monitoring system (CEMS) consisting of NO<sub>x</sub> and O<sub>2</sub> monitors. [40 CFR 60.334(b)]

a.) The CEMS must be installed and certified according to Performance Specifications 2 and 3 (for diluent) of 40 CFR part 60, appendix B. [40 CFR 60.334(b)(1)]

b.) The CEMS must operate as specified in 40 CFR60.13(e)(2). [40 CFR 60.334(b)(2)]

c.) The permittee has installed a NO<sub>x</sub> CEMS to meet the requirements of 40 CFR Part 75 (Acid Rain Program). The Part 75 CEMS may be used to meet the CEMS requirements of 40 CFR Part 60 subpart GG, except that the missing data substitution methodology provided for in 40 CFR part 75, subpart D, is not required for purposes of identifying excess emissions. Instead, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in §60.7(c). [40 CFR 60.334(b)(3)(iii)]

4. For purposes of identifying excess emissions, CEMS data must be reduced to hourly averages as specified in §60.13(h). For each unit operating hour in which a valid hourly average is obtained for both NO<sub>x</sub> and diluent, the data acquisition and handling system must calculate and record the hourly NO<sub>x</sub> emissions in the units of the applicable NO<sub>x</sub> emission standard under §60.332(a), i.e., percent NO<sub>x</sub> by volume, dry basis, corrected to 15 percent O<sub>2</sub> and International Organization for Standardization (ISO) standard conditions (if required as given in §60.335(b)(1)). For any hour in which the hourly average O<sub>2</sub> concentration exceeds 19.0 percent O<sub>2</sub>, a diluent cap value of 19.0 percent O<sub>2</sub> may be used in the emission calculations. [40 CFR 60.334(b)(3), 60.334(b)(3)(i)]

5. Excess emissions during all times of operation, including startup, shutdown, and malfunction, along with monitor downtime shall be reported semiannually in accordance with 40 CFR 60.7(c). Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the owner or operator has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of



the fuel during the period of excess emissions. The permittee does not have to report ambient conditions if the permittee opt to use the worst case ISO correction factor as specified in §60.334(b)(3)(ii), or if the permittee is not using the ISO correction equation under the provisions of §60.335(b)(1). [40 CFR 60.334(j)(5), 60.334(j)(1)(iii)(C)]

Manufacturer Name/Model Number: HORIBA ENDA E4320L

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 115 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 97: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.332(f), NSPS Subpart GG**

**Item 97.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

**Item 97.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- 1) Stationary gas turbines using water or steam injection for control of NO<sub>x</sub> emissions are exempt from the NO<sub>x</sub> emission limit in section 60.332(a) when ice fog is deemed a traffic hazard by the owner or operator of the turbine.
- 2) A quarterly written report that includes a record of each period during which this exemption was invoked shall be submitted to the Administrator [60.334(c)(3)], reporting the following:
  - a) the ambient conditions existing during the period when the exemption was invoked,
  - b) the date and time the air pollution control system was deactivated, and
  - c) the date and time the air pollution control system was reactivated.
- 3) If this exemption was not invoked during the quarter

New York State Department of Environmental Conservation

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



state so in the report.

Monitoring Frequency: CONTINUOUS  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 98: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.44b(l)(1), NSPS Subpart Db**

**Item 98.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020  
Process: DB1

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

**Item 98.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NSPS Da NOx limit for Duct Burner  
Determine compliance on a 30-day rolling average, calculated each steam unit operating day as the average of all hourly NOx emissions for the preceding 30 steam generating days, by using continuous emission monitoring systems. The sampling site shall be located at the outlet from the steam generating unit. The NOx emissions rate at the outlet from the steam generating unit shall constitute the NOx emissions rate from the duct burner of the combined cycle system. [40 CFR 60.46b(f)(2)]

Manufacturer Name/Model Number: Horiba ENDA-E4320L CLA

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.20 pounds per million Btus

Reference Test Method: 40CFR60 Appendix B, PS 2

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 99: Compliance Certification**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:40CFR 60.49b(d), NSPS Subpart Db**



**Item 99.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Process: DB1

**Item 99.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall record and maintain records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for coal, distillate oil, residual oil, natural gas, wood, and municipal-type solid waste for each calendar quarter. The annual capacity factor is determined on a 12-month rolling average basis with a new annual capacity factor calculated at the end of each calendar month.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 100: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 100.1:**

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

40 CFR 52.21

**Item 100.2:**

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

**Item 100.3:**

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 100.4:**

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 100.5:**

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 100.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00022

Regulated Contaminant(s):

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

**Item 100.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) PM-10 emissions from this emission unit are limited to 0.8 ton/yr, on a 52-week rolling basis.

2) This cap combined with the 14.0 ton/yr cap on emission unit U-00020 (gas turbine) results in a net emission increase of PM-10 for the gas turbine project that is less than the 15 ton/yr significant net emission increase threshold for PM-10. Therefore, the gas turbine project will not be subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.

3) Compliance with this limit shall be demonstrated by maintaining records of the amount of fuel fired and calculating the actual emissions. To calculate the actual emissions multiply the PM-10 emission factor provided by the boiler manufacture, 0.01 lb PM-10 per mmBtu, by the amount of fuel fired in mmBtu's.

4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 0.8 tons.





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

**Item 101.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

- 1) NOx emissions from this emission unit are limited to 5.0 ton/yr, on a 52-week rolling basis.
- 2) This cap combined with the 160.0 ton/yr cap on emission unit U-00020 (gas turbine) and with the 125.5 ton/yr of NOx ERCs generated by curtailment (145 ton per year cap) of the existing boilers in emission unit U-00004 (boilers 10 and 11) (DEC Permit ID 9-0608-00053/00025) results in a net emission increase of NOx for the turbine project that is less than the 40 ton/yr significant net emission increase threshold for NOx. Therefore, the gas turbine project will not be subject to the control, emissions offset, or modeling requirements of 6 NYCRR subpart 231-2 (Non-Attainment) or 40 CFR 52 (PSD Review).
- 3) Compliance with this limit shall be demonstrated by maintaining records of the amount of fuel fired and calculating the actual emissions. To calculate the actual emissions multiply the NOx emission factor provided by the boiler manufacture, 0.024 lb NOx per mmBtu, by the amount of fuel fired in mmBtu's.
- 4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 5.0 tons.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 5.0 tons per year

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 102: Capping Monitoring Condition**  
**Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-7.1**



**Item 102.1:**

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

40 CFR 52.21

**Item 102.2:**

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

**Item 102.3:**

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 102.4:**

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 102.5:**

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 102.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00022

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 102.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) CO emissions from this emission unit are limited to  
8.7 ton/yr, on a 52-week rolling basis.

2) This cap combined with the 90.0 ton/yr cap on emission



unit U-00020 (gas turbine) results in a net emission increase of CO for the gas turbine project that is less than the 100 ton/yr significant net emission increase threshold for CO. Therefore the project will not be subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.

3) Compliance with this limit shall be demonstrated by maintaining records of the amount of fuel fired and calculating the actual emissions. To calculate the actual emissions multiply the CO emission factor provided by the boiler manufacture, 0.150 lb CO per mmBtu, by the amount of fuel fired in mmBtu's.

4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 0.8 tons.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 8.7 tons per year

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 103: Capping Monitoring Condition  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 201-7.1**

**Item 103.1:**

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

40 CFR 60.332

**Item 103.2:**

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

**Item 103.3:**

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 103.4:**

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 103.5:**

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 103.6:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00023

Regulated Contaminant(s):

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

**Item 103.7:**

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

- 1.) Operation of the emergency backup combustion gas turbine is limited to 500 hours per year on a 12-month rolling basis.
- 2.) A hour meter shall be used to monitor operation of the turbine. Monthly, the turbine hour meter reading will be recorded in a log and the 12-month total hours of operation calculated and recorded.
- 3.) Report the 12-month total hours of operation for each month of the reporting period on an annual basis.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL TOTAL ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 104:      Compliance Certification**  
**Effective for entire length of Permit**



**Applicable Federal Requirement:40CFR 60.333(b), NSPS Subpart GG**

**Item 104.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-00023

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 104.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

- 1.) No owner or operator of a stationary combustion gas turbine shall burn any fuel which contains sulfur in excess of 0.8% by weight (8000 ppmw).
- 2.) Records of each oil delivery shall be kept for at least five years and contain the delivery date, quantity of fuel received and sulfur content of the oil. The total sulfur analysis shall be conducted using one of the ASTM methods listed in 40 CFR 60.335(10)(i).
- 3.) The highest sulfur content from any batch of oil delivered during a compliance reporting period shall be reported in the compliance report. If no oil was delivered during the compliance reporting period that shall be stated.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Upper Permit Limit: 0.8 percent by weight

Reference Test Method: see 40CFR60.335(10)(i) for the ASTM methods

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 105: Compliance Certification  
Effective for entire length of Permit**

**Applicable Federal Requirement:6 NYCRR 227-2.4 (c) (1) (i)**

**Item 105.1:**

The Compliance Certification activity will be performed for:



Emission Unit: U-00027

Emission Point: 00027

Regulated Contaminant(s):

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

**Item 105.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT limit for 73.5 mmBtu/hr natural gas-fired package boiler prior to July 1, 2014.

- 1) Prior to July 1, 2014 the NOx emissions from the package boiler are limited to 0.10 pounds per million Btu heat input.
- 2) The emission compliance test was conducted on March 2, 2011 and averaged 0.031 lb NOx/MMBtu.
- 3) Once a permit term a NOx emission test must be completed to evaluate compliance with the above emission limit. A protocol is due at least 30 days before the scheduled test. The test report is due within 60 days of completing the test.
- 4) The Annual Compliance Certification Report shall report the compliance status of this condition.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA Method 7, 7E or 19 from 40CFR Part 60, App. A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



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

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

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

**STATE ONLY APPLICABLE REQUIREMENTS**  
**The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.**

**Condition 106: Contaminant List**  
**Effective for entire length of Permit**

**Applicable State Requirement:ECL 19-0301**

**Item 106.1:**  
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 000124-38-9  
Name: CARBON DIOXIDE



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

CAS No: 007439-97-6  
Name: MERCURY

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

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

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

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

**Condition 107: Malfunctions and start-up/shutdown activities  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 201-1.4**

**Item 107.1:**

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

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

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level



concentration of each air contaminant emitted and the effect of such emissions.

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

**Condition 108: Unavoidable noncompliance and violations  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 201-1.4**

**Item 108.1:**

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 109: Unavoidable noncompliance and violations  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 201-1.4**

**Item 109.1:**

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 110: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 211.1**

**Item 110.1:**

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

Emission Unit: U-00005

Emission Unit: U-00006

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 110.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The ash silo's and the roadways are subject to the nuisance requirements under 6NYCRR Part 211.1 for fugitive emissions. The fugitive emissions from ash handling must not contribute to a public nuisance or re-entrainment problem. The facility shall control fugitive emissions as follows:

1) The ash silo's are vented through baghouses. Ash is removed from the silo's by emptying into dump trucks.

a) To load a dump truck the ash is mixed with water to ball it up. The discharge chute also extends down into the dump box. All dump trucks must be covered before they leave the site. These procedures must be used when filling every dump truck to minimize re-entrainment.

b) All roadways must be washed down to minimize dust emissions as necessary.



2) The permittee must certify semiannually that the fugitive dust preventative measures described above have been implemented as necessary during the reporting period.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 111: Visible Emissions Limited**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 211.2**

**Item 111.1:**

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 112: Compliance Demonstration**  
**Effective for entire length of Permit**

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

**Item 112.1:**

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

Emission Unit: U-00003

Emission Unit: U-00023

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 112.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

1) No person shall sell, offer for sale, purchase or use any distillate oil fuel which contains more than 1.50 percent sulfur by weight (15,000 ppm sulfur).

2) Records of each oil delivery shall be kept for at least five years and contain the delivery date, quantity of fuel received, sulfur content, specific gravity, and heating value of the oil (6 NYCRR 225-1.8).



- 3) The highest sulfur content from any batch of oil delivered during a compliance reporting period shall be reported in the compliance report. If no oil was delivered state so.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 1.50 percent by weight  
Reference Test Method: ASTM D 4294  
Monitoring Frequency: PER DELIVERY  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 113: Compliance Demonstration**  
**Effective for entire length of Permit**

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

**Item 113.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 113.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1) The annual average sulfur content of coal being used shall not exceed 1.7 pounds per million Btu. This limit shall be monitored by the use of a continuous emission monitoring system (CEMS) which measures sulfur dioxide emissions. The CEMS shall be installed and operated to meet the requirements of 40 CFR Part 75 Appendix A and shall meet the quality assurance and quality control requirements of 40 CFR Part 75 Appendix B.
- 2) The equivalent annual average sulfur dioxide emission limit is 3.4 pounds per million Btu.
- 3) The annual average sulfur emission rate shall be reported for each month of a compliance reporting period.



Manufacturer Name/Model Number: TECO 43i  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 1.7 pounds per million Btus  
Reference Test Method: 40 CFR 75 App A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 114: Continuous Opacity Monitor Required  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-1.4 (a)**

**Item 114.1:** Any person who owns a stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title, for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of opacity is not required.

**Condition 115: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 242-1.5**

**Item 115.1:**

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

Emission Unit: U-00020

**Item 115.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO<sub>2</sub> authorized account representative for the source and each CO<sub>2</sub> budget unit at the source and all documents that



demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO2 Budget Trading Program.

(iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.

The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 Budget Trading Program, including those under Subpart 242-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 0 days after the reporting period.

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

**Condition 116: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR Subpart 242-4**

**Item 116.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 116.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Annual Compliance Certification Report:

(a) For each control period in which a CO2 budget source is subject to the CO2 requirements of subdivision



242-1.5(c) of this Part, CO2 authorized account representative of the source shall submit to the department by March 1st following the relevant control period, a compliance certification report. The control period is a three-calendar-year time period.

(b) The compliance certification report shall include the following elements:

(1) identification of the source and each CO2 budget unit at the source;

(2) as an option, the serial numbers of the CO2 allowances that are to be deducted from the source's compliance account under section 242-6.5 of this Part for the control period, including the serial numbers of any CO2 offset allowances that are to be deducted subject to the limitations of section 242-6.5(a)(3) of this Part; and

(3) the compliance certification under subdivision (c) of this section (below).

(c) In the compliance certification report the CO2 authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO2 budget units at the source in compliance with the CO2 Budget Trading Program, whether the source and each CO2 budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO2 Budget Trading Program, including:

(1) whether the source was operated in compliance with the CO2 requirements of section 242-1.5(c) of this Part;

(2) whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO2 emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO2 emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all



conditional data has been resolved and all necessary quarterly report resubmissions have been made;

(4) whether the facts that form the basis for certification under Subpart 242-8 of each monitor at each unit at the source, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 242-8 of this Part, if any, have changed; and

(5) if a change is required to be reported under paragraph (c)(4) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 117: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 242-8.5**

**Item 117.1:**

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

Emission Unit: U-00020

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 117.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

(a) General provisions. The CO<sub>2</sub> authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO<sub>2</sub> budget unit shall submit a monitoring plan in the manner



prescribed in 40 CFR 75.62.

(c) Certification applications. The CO<sub>2</sub> authorized account representative shall submit an application to the department within 45 days after completing all CO<sub>2</sub> monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO<sub>2</sub> authorized account representative shall submit quarterly reports, as follows:

(1) The CO<sub>2</sub> authorized account representative shall report the CO<sub>2</sub> mass emissions data and heat input data for the CO<sub>2</sub> budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO<sub>2</sub> authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO<sub>2</sub> budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO<sub>x</sub>, and SO<sub>2</sub> provisions.

(3) The CO<sub>2</sub> authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications;

(ii) for a unit with add-on CO<sub>2</sub> emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO<sub>2</sub> emissions; and

(iii) the CO<sub>2</sub> concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO<sub>2</sub> emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION



New York State Department of Environmental Conservation

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 007439-97-6      MERCURY

**Item 119.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Effective January 1, 2015, each existing MRP facility shall not exceed the emission limit of 0.6 pounds mercury per trillion Btu (0.6 lb Hg/TBtu).

Manufacturer Name/Model Number: Apex Automated Mercury Source Sampler, Model #XC-6000EPC

Upper Permit Limit: 0.6 pounds per trillion British thermal units

Monitoring Frequency: CONTINUOUS

Averaging Method: 30 DAY ROLLING AVERAGE, ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 120:      Requirements for Installation, Certification and Data Accounting**

**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 246.7 (b) (1)**

**Item 120.1:**

The owner or operator of a Mercury Reduction Program (MRP) unit that commences commercial operation before July 1, 2008, shall by January 1, 2009;

(1) Install all monitoring systems required under sections 246.7 through 246.13 of this Part for monitoring mercury mass emissions and individual unit heat input (including all systems required to monitor mercury concentration, stack gas moisture content, stack gas flow rate, and CO<sub>2</sub> or O<sub>2</sub> concentration, as applicable) in accordance with 40 CFR 75.81, 40 CFR 75.82, and 40 CFR 60 Appendix B - Performance Specification 12A;

(2) Successfully complete all certification tests required under section 246.8 of this Part and meet all other requirements of sections 246.7 through 246.13 of this Part, and of 40 CFR 75 Subpart I of applicable to the monitoring systems under paragraph (a)(1) of this section; and

(3) Record and report the data from the monitoring systems under paragraph (a)(1) of this section in accordance with 40 CFR 75.84; and

(4) Quality assure the data from the monitoring systems under paragraph (a)(1) of this section in accordance with 40 CFR 75.80(e).

**Condition 121:      Certification Procedures for Sorbent Trap Monitoring**



**Systems**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.8 (c) (1)**

**Item 121.1:**

The owner or operator of a Mercury Reduction Program (MRP) unit shall comply with the following initial certification for sorbent trap monitoring system under 40 CFR 75.15.

Requirements for initial certification. The owner or operator shall ensure that each sorbent trap monitoring system under paragraph 246.7(a)(1) (including the automated data acquisition and handling system) successfully completes all of the initial certification testing required under 40 CFR 75.20 by the applicable deadline in subdivision 246.7(b). In addition, whenever the owner or operator installs a monitoring system to meet the requirements of this section in a location where no such monitoring system was previously installed, initial certification in accordance with 40 CFR 75.20 is required.

**Condition 122: Recertification Procedures for Sorbent Trap Monitoring System**

**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.8 (c) (2)**

**Item 122.1:**

Whenever the owner or operator makes a replacement, modification, or change in any certified sorbent trap monitoring system under 40 CFR 75.15, that may significantly affect the ability of the system to accurately measure or record Hg mass emissions or heat input rate or to meet the quality-assurance and quality-control requirements of 40 CFR 75.21 or 40 CFR 75 Appendix B, the owner or operator shall recertify the monitoring system in accordance with 40 CFR 75.20.

Whenever the owner or operator makes a replacement, modification, or change to the flue gas handling system or the unit's operation that may significantly change the stack flow or concentration profile, the owner or operator shall recertify each sorbent trap monitoring system under 40 CFR 75.15, whose accuracy is potentially affected by the change, in accordance with 40 CFR 75.20. Examples of changes to an emission monitoring system that require recertification include, complete replacement of an existing monitoring system, or change in location or orientation of the sampling probe or site.

**Condition 123: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.8 (c) (3)**

**Item 123.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 007439-97-6 MERCURY



**Item 123.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Notification of certification. The owner or operator of the Mercury Reduction Program (MRP) facility shall submit to the department, written notice of the dates of certification testing, in accordance with section 246.10 which refers to 40 CFR Part 75.61. The notifications shall be made not later than 21 days prior to the first scheduled day of certification or recertification testing as required by 75.61(a)(1)(i).

Certification application. The owner or operator of a MRP facility shall submit to the department a certification application for each monitoring system. A complete certification application shall include the information specified in 40 CFR 75.63 and shall be submitted to the department within 45 days after completing all initial certification or recertification tests required under section 246.8 of this Part, including the information required under 40 CFR 75.63.

Provisional certification date. The provisional certification date for a monitoring system shall be determined in accordance with 40 CFR 75.20(a)(3). A provisionally certified monitoring system may be used under the Mercury Reduction Program for a period not to exceed 120 days after receipt by the department of the complete certification application for the monitoring system under subparagraph 246.8(c)(3)(ii). Data measured and recorded by the provisionally certified monitoring system, in accordance with the requirements of 40 CFR Part 75, will be considered valid quality-assured data (retroactive to the date and time of provisional certification), provided that the department does not invalidate the provisional certification by issuing a notice of disapproval within 120 days of the date of receipt of the complete certification application by the department.

In absence of the US EPA Administrator accepting data and reports for mercury emissions, CEMs and Data Acquisition Handling Systems, all certification applications for mercury CEMs should be sent to the Department and approvals granted under 40 CFR 75.20 for mercury CEMs shall be administered through the Department.

Note: The Department recognizes the July 1, 2006 Edition of 40 CFR Part 75.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING



DESCRIPTION  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 124: Missing Data Procedures and Out of Control Periods for CEMs**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.9 (a)**

**Item 124.1:**

Whenever any monitoring system fails to meet the quality-assurance and quality-control requirements or data validation requirements of 40 CFR Part 75, data shall be substituted using the applicable missing data procedures in 40 CFR 75 Subpart D.

**Condition 125: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.11 (a)**

**Item 125.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 007439-97-6 MERCURY

**Item 125.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of a Mercury Reduction Program (MRP) facility shall comply with all record keeping requirements in 6NYCRR Part 246.11 and the applicable record keeping requirements of 40 CFR 75.84(a) through (c).

Monitoring Frequency: QUARTERLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 126: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.11 (b)**

**Item 126.1:**

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





Monitoring Description:

The owner or operator of a Mercury Reduction Program (MRP) facility shall submit an application to the department within 45 days after completing all initial certification or recertification tests required under section 246.8 of this Part, including the information required under 40 CFR 75.63.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 128: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 246.11 (d)**

**Item 128.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):  
CAS No: 007439-97-6 MERCURY

**Item 128.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of a Mercury Reduction Program (MRP) facility that commences commercial operation before July 1, 2008 shall submit quarterly reports, as follows:

- (1) Report the mercury mass emissions data and heat input data for the MRP unit in a hard copy format prescribed by the for each calendar quarter beginning with January 1, 2009 through March 31, 2009.
- (2) Submit each quarterly report to the Department within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in 40 CFR 75.84(f).
- (3) For MRP units that are also subject to an Acid Rain emissions limitation, quarterly reports shall include the applicable data and information required by 40 CFR 75 Subparts F through H as applicable, in addition to the mercury mass emission data, heat input data, and other information required by sections 246.7 through 246.13 of this Part.



In absence of the US EPA Administrator accepting data and reports for mercury emissions, CEMs and Data Acquisition Handling Systems, electronic submittal of quarterly data is not required until an electronic system is created and maintained by the US EPA.. Hourly mercury mass emission data and heat input data generated by CEM units and would have been submitted to the USEPA electronically shall be kept on site until the US EPA Administrator has a method to accept this data.

Note: The Department recognizes the July 1, 2006 Edition of 40 CFR Part 75.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 129: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 246.11 (e)**

**Item 129.1:**

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

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 007439-97-6      MERCURY

**Item 129.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners or operators of a Mercury Reduction Program (MRP) facility shall submit to the Department, a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(1) The monitoring data submitted were recorded in accordance with the applicable requirements of sections 246.7 through 246.13 of 6NYCRR Part 246, and 40 CFR Part 75, including the quality assurance procedures and specifications; and



(2) In absence of a revised missing data substitution plan by the Department, data are substituted in accordance with 40 CFR 75.34(a)(1) for all hours where mercury data are substituted for a unit with add-on mercury emission controls.

(i) (a) The mercury add-on emission controls were operating within the range of parameters listed in the quality assurance/quality control program under 40 CFR 75 Appendix B; or

(b) With regard to a flue gas desulfurization system or a selective catalytic reduction system, quality-assured SO<sub>2</sub> emission data recorded in accordance with 40 CFR Part 75 document that the flue gas desulfurization system was operating properly, or quality-assured NO<sub>x</sub> emission data recorded in accordance with 40 CFR Part 75 document that the selective catalytic reduction system, was operating properly, as applicable, and

(ii) The substitute data values do not systematically underestimate mercury emissions.

In absence of the US EPA Administrator accepting data and reports for mercury emissions, CEMs and Data Acquisition Handling Systems, electronic submittal of quarterly data is not required until an electronic system is created and maintained by the US EPA.. Hourly mercury mass emission data and heat input data generated by CEM units and would have been submitted to the USEPA electronically shall be kept on site until the US EPA Administrator has a method to accept this data.

Note: The Department recognizes the July 1, 2006 Edition of 40 CFR Part 75.

Monitoring Frequency: QUARTERLY  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

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

**Condition 130: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.5 (c)**



**Item 130.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003  
Process: 001                                      Emission Source: 00001

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

**Item 130.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT limit for boiler #9 on and after July 1, 2014 based on a case-by-case determination.

1) The #9 boiler (emission source 00001) is a "large boiler" as defined under Part 227-2 and fires pulverized coal.

a) The NOx emissions from this boiler shall not exceed 145.0 tons per 52-week rolling total. A separate permit condition under citation 6NYCRR Part 201-7.1 makes this emission cap enforceable. With the cap, the cost of NOx controls exceeds the RACT dollar per ton threshold, so the permittee will continue to comply with the pre July 1, 2014 NOx RACT emission limits that apply for "large boilers."

b) During the ozone season, May 1 through September 30 on and after July 1, 2014, emissions from this boiler shall not exceed 0.50 lbs of NOx per mmBtu during any 24 hour daily averaging period. The stack daily 24 hour average NOx emission rate shall be recorded and reported quarterly.

c) During the non-ozone season, October 1 through April 30 on and after July 1, 2014, the emissions from this boiler shall not exceed 0.50 lbs of NOx per mmBtu during any 30 day rolling averaging period. The rolling 30 day average NOx emissions from boiler #9 shall be calculated from the 24 hour daily average NOx emission rates. The stack rolling 30 day average NOx emission rate shall be recorded and reported quarterly.

2) NOx emissions from the boiler stack shall be monitored continuously by continuous emissions monitoring systems (CEMS). After January 1, 2014 boiler #12 (emission source 00004) will no longer be operating; as such, only boiler #9 will emit to the stack (emission point 00003).

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



3) The facility shall report each exceedance of the 0.50 lbs of NOx per mmBtu limit occurring during each quarter, if any, and an explanation on what caused the exceedance and what steps have been or will be taken to remedy the exceedance. If the boiler did not operate at all state so.

4) The facility has opted to follow the procedures in 40 CFR 75 to demonstrate compliance with 6 NYCRR 227-2. In addition, per 6 NYCRR 227-2.6(b)(5), emission rates to demonstrate compliance with 6 NYCRR 227-2 may be calculated and reported as described in 6 NYCRR 227-2.6(b)(3)(i)(b).

Manufacturer Name/Model Number: TECO 42i  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 0.50 pounds per million Btus  
Reference Test Method: 40 CFR 75, App A  
Monitoring Frequency: CONTINUOUS  
Averaging Method: AVERAGING METHOD - SEE MONITORING

**DESCRIPTION**

Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 131: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.5 (d)**

**Item 131.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003                      Emission Point: 00003  
Process: 001                                      Emission Source: 00004

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

**Item 131.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx RACT for boiler #12 on and after January 1, 2014

The facility has opted to comply with the requirements of 6NYCRR Part 227-2 Reasonably Available Control Technology for NOx (NOx RACT) by permanently shutting down boiler #12 on or before January 1, 2014. The Department must be notified within 15 days of shutting down boiler #12.



Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 132: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (b)**

**Item 132.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00004 Emission Point: 00004

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

**Item 132.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT limit for boiler #10

1) Emissions of NOx from this boiler shall not exceed 0.06 lbs NOx per million Btu. The #10 boiler (emission source 00007) is a "large boiler" as defined under Part 227-2 and fires pipeline quality natural gas only. This limit satisfies the current (prior to July 1, 2014) and future (on and after July 1, 2014) NOx RACT requirements of 6 NYCRR 227-2.4(b).

2) Compliance with the NOx limit shall be based on an initial stack test conducted within 180 days of commencing operation and in accordance with test requirements described in 6 NYCRR 227-2.6(c). A compliance test protocol shall be submitted at least 30 days prior to emission testing. A report containing the results of the emission test shall be submitted to the department for approval no later than 60 days after completion of each emission test.

3) The Annual Compliance Certification Report shall include the date and results of the last compliance test.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.06 pounds per million Btus

Reference Test Method: 40 CFR 75, Appendix E - EPA Method 7E

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED



Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 133: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (e) (2)**

**Item 133.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020

Process: GT1

Regulated Contaminant(s):

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

**Item 133.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT limit for LM6000 Combustion Gas Turbine (operating in combined cycle mode) prior to July 1, 2014 firing only natural gas.

1) The NOx limit when operating in COMBINED CYCLE mode (when both the combustion turbine and duct burner are operating) is 42 ppm, corrected to 15 percent oxygen (process GT1, emission point 00021).

2) The owner/operator of a combined cycle combustion turbine with a maximum heat input rate greater than 250 mmBtu/hr must utilize CEMS to demonstrate compliance with the NOx limit, per under 6NYCRR 227-2.6(a)(5).

3) The owner/operator has opted to follow the CEMS procedures of 40CFR part 75, per 6NYCRR 227-2.6(b)(5). All of the requirements of part 75 apply. The owner/operator must demonstrate compliance with the emission limit of 6NYCRR 227-2.4(e)(2)(i) by calculating and reporting NOx emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The emission unit must also comply with the less stringent NOx limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba ENDA-E4320L CLA

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)



Reference Test Method: 40 CFR 75  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC  
AVERAGE)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 134: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (e) (3)**

**Item 134.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020  
Process: GT1

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

**Item 134.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT limit for the LM6000 Combustion Gas Turbine  
(operating in combined cycle mode) during the ozone season  
on and after July 1, 2014.

1) During the ozone season, May 1 through September 30, on  
and after July 1, 2014, the NOx limit when operating in  
COMBINED CYCLE mode (when both the combustion turbine and  
duct burner are operating) is 35 ppm, corrected to 15  
percent oxygen (process GT1, emission point 00021).

2) The owner/operator of a combined cycle combustion  
turbine with a maximum heat input rate greater than 250  
mmBtu/hr must utilize CEMS to demonstrate compliance with  
the NOx limit, per 6NYCRR 227-2.6(a)(5).

3) The owner/operator has opted to follow the CEMS  
procedures of 40CFR part 75, per 6NYCRR 227-2.6(b)(5).  
All of the requirements of part 75 apply. The  
owner/operator must demonstrate compliance with the  
emission limit above by calculating and reporting NOx  
emission rates as 24-hour daily heat input weighted  
averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The emission unit must also comply with the less  
stringent NOx limit of 40CFR60 subpart GG as determined by



methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba ENDA-E4320L CLA  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 35 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)  
Reference Test Method: 40 CFR 75  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC  
AVERAGE)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 135: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (e) (3)**

**Item 135.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020  
Process: GT1

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

**Item 135.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NO<sub>x</sub> RACT limit for LM6000 Combustion Gas Turbine  
(operating in combined cycle mode) during the non-ozone  
season on and after July 1, 2014.

1) During the non-ozone season, October 1 thorough April  
30, on and after July 1, 2014, the NO<sub>x</sub> limit when  
operating in COMBINED CYCLE mode (when both the combustion  
turbine and duct burner are operating) is 42 ppm,  
corrected to 15 percent oxygen (process GT1, emission  
point 00021).

2) The owner/operator of a combined cycle combustion  
turbine with a maximum heat input rate greater than 250  
mmBtu/hr must utilize CEMS to demonstrate compliance with  
the NO<sub>x</sub> limit, per under 6NYCRR 227-2.6(a)(5).

3) The owner/operator has opted to follow the CEMS  
procedures of 40CFR part 75, per 6NYCRR 227-2.6(b)(5).  
All of the requirements of part 75 apply. The



owner/operator must demonstrate compliance with the emission limit above by calculating and reporting NOx emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The emission unit must also comply with the less stringent NOx limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba ENDA-E4320L CLA

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC AVERAGE)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 136: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 227-2.4 (e) (1)**

**Item 136.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020

Process: GT2

Regulated Contaminant(s):

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

**Item 136.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT limit for the LM6000 Combustion Gas Turbine (operating in simple cycle mode) prior to July 1, 2014 firing only natural gas.

1) The NOx limit when operating in SIMPLE CYCLE mode (when only the combustion turbine is operating) prior to July 1, 2014 is 50 ppm, corrected to 15 percent oxygen (process GT2, emission point 00020 or 00021).

2) The owner/operator has opted to utilize CEMS to demonstrate compliance with the NOx limit as allowed under 6NYCRR 227-2.4(e). Because emissions during simple cycle



operating mode could be vented to both emission point 00020 and emission point 00021, the higher of the NO<sub>x</sub> concentrations measured in emission point 00020 or 00021 will be used to determine compliance with the emission limit.

3) The owner/operator has opted to follow the CEMS procedures of 40CFR part 75, per 6NYCRR 227-2.6(b)(5). All of the requirements of part 75 apply. The the owner/operator must demonstrate compliance with the emission limit of 6NYCRR 227-2.4(e)(1)(i) by calculating and reporting NO<sub>x</sub> emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The facility must also comply with the less stringent NO<sub>x</sub> limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba ENDA-E4320L CLA

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 50 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)

Reference Test Method: 40CFR75 APP.

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC  
AVERAGE)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

Subsequent reports are due every 3 calendar month(s).

**Condition 137: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (e) (3)**

**Item 137.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020

Process: GT2

Regulated Contaminant(s):

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

**Item 137.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NO<sub>x</sub> RACT limit for the LM6000 Combustion Gas Turbine  
(operating in simple cycle mode) on and after July 1,



2014.

1) The NO<sub>x</sub> limit when operating in SIMPLE CYCLE mode (when only the combustion turbine is operating) on and after July 1, 2014 is 50 ppm, corrected to 15 percent oxygen (process GT2, emission point 00020 or 00021).

2) The owner/operator has opted to utilize CEMS to demonstrate compliance with the NO<sub>x</sub> limit. Because emissions during simple cycle operating mode could be vented to both emission point 00020 and emission point 00021, the higher of the NO<sub>x</sub> concentrations measured in emission point 00020 or 00021 will be used to determine compliance with the emission limit.

3) The owner/operator has opted to follow the CEMS procedures of 40CFR part 75, per 6NYCRR 227-2.6(b)(5). All of the requirements of part 75 apply. The the owner/operator must demonstrate compliance with the emission limit above by calculating and reporting NO<sub>x</sub> emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The facility must also comply with the less stringent NO<sub>x</sub> limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba ENDA-E4320L CLA  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 50 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: 40CFR75 APP.  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC AVERAGE)  
Reporting Requirements: QUARTERLY (CALENDAR)  
Reports due 30 days after the reporting period.  
Subsequent reports are due every 3 calendar month(s).

**Condition 138: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement:6 NYCRR 227-2.4 (d)**

**Item 138.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00022

Emission Point: 00022

**Item 138.2:**

Compliance Demonstration shall include the following monitoring:

**New York State Department of Environmental Conservation**

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053



Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx RACT Requirements for 23.3 mmBtu/hr natural gas package boiler.

1) Any owner or operator of a small boiler shall perform a tune-up, as defined in section 227-2.2(b)(13) annually.

2) The owner or operator shall maintain in a permanently bound log book, or other format approved in writing by the department, the following information:

a) the date on which the combustion process was last adjusted,

b) the name title and affiliation of the person who made the adjustments, and

c) any other information which the department may require.

3) As part of the semiannual compliance report, the responsible official shall report the date of the last boiler tune-up.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 139: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (e) (1)**

**Item 139.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00023

Emission Point: 00023

Regulated Contaminant(s):

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

**Item 139.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT limit for 750 kW Emergency Backup Solar Combustion Turbine prior to July 1, 2014.

1.) NOx emissions from the emergency turbine are limited to 100 parts per million on a dry volume basis (ppmvd), corrected to 15 percent oxygen prior to July 1,



2014.

2) The permittee will comply with the above limit by maintaining good combustion practices in accordance with the manufacturer's recommendations.

3.) A compliance emission test shall be conducted within 60 days of achieving the maximum production rate of the turbine, but not later than 180 days after initial startup. A testing protocol shall be submitted at least 30 days before testing is planned, and a testing report shall be submitted within 60 days of testing.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 100 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: 40 CFR Part 60, Appendix A, Method 20

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 140: Compliance Demonstration  
Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (e) (3)**

**Item 140.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00023

Emission Point: 00023

Regulated Contaminant(s):

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

**Item 140.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NO<sub>x</sub> RACT limit for 750 kW Emergency Backup Solar  
Combustion Turbine on and after July 1, 2014.

1.) NO<sub>x</sub> emissions from the emergency turbine are limited to 100 parts per million on a dry volume basis (ppmvd), corrected to 15 percent oxygen on and after July 1, 2014.

2) The permittee will comply with the above limit by maintaining good combustion practices in accordance with the manufacturer's recommendations.



3.) A compliance emission test shall be conducted within 60 days of achieving the maximum production rate of the turbine, but not later than 180 days after initial startup. A testing protocol shall be submitted at least 30 days before testing is planned, and a testing report shall be submitted within 60 days of testing.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 100 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: 40 CFR Part 60, Appendix A, Method 20

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 141: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (c) (1) (ii)**

**Item 141.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00027

Emission Point: 00027

Regulated Contaminant(s):

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

**Item 141.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NO<sub>x</sub> RACT limit for 73.5 mmBtu/hr natural gas-fired package boiler on and after July 1, 2014.

1) On and after July 1, 2014 the NO<sub>x</sub> emissions from the package boiler are limited to 0.05 pounds per million Btu heat input.

2) The initial emission compliance test was conducted on March 2, 2011 and averaged 0.031 lb NO<sub>x</sub>/MMBtu.

3) Once a permit term a NO<sub>x</sub> emission test must be completed to evaluate compliance with the above emission limit. A protocol is due at least 30 days before the scheduled test. The test report is due within 60 days of completing the test.

4) The Annual Compliance Certification Report shall report the compliance status of this condition.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.05 pounds per million Btus



Reference Test Method: EPA Method 7, 7E or 19 from 40CFR Part 60, App. A  
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 142: Compliance Demonstration**  
**Effective for entire length of Permit**

**Applicable State Requirement: 6 NYCRR 227-2.4 (d)**

**Item 142.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00028 Emission Point: 00028

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

**Item 142.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx RACT Requirements for 3.2 mmBtu/hr natural gas package boiler for the DA (deaeration) tank.

- 1) Any owner or operator of a small boiler shall perform a tune-up, as defined in section 227-2.2(b)(13) annually.
- 2) The owner or operator shall maintain in a permanently bound log book, or other format approved in writing by the department, the following information:
  - a) the date on which the combustion process was last adjusted,
  - b) the name title and affiliation of the person who made the adjustments, and
  - c) any other information which the department may require.
- 3) As part of the semiannual compliance report, the responsible official shall report the date of the last boiler tune-up.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

