



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 7-5032-00019/00016
Effective Date: 01/29/2015 Expiration Date: 01/28/2020

Permit Issued To: CAYUGA OPERATING COMPANY LLC
228 CAYUGA DR
LANSING, NY 14882

Contact: JEFF LAMPHERE
CAYUGA OPERATING COMPANY, LLC
228 CAYUGA DR
LANSING, NY 14882
(607) 533-7913

Facility: CAYUGA OPERATING COMPANY, LLC
228 CAYUGA DR
LANSING, NY 14882

Description:
Title V Renewal; incorporation of Utility MACT standard.

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: JOSEPH M DLUGOLENSKI
1285 FISHER AVE
CORTLAND, NY 13045-1090

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 7 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 prior to actual transfer of ownership.

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 7 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 7 Headquarters
Division of Environmental Permits
615 Erie Blvd West
Syracuse, NY 13204-2400
(315) 426-7400

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

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228 CAYUGA DR
LANSING, NY 14882

Facility: CAYUGA OPERATING COMPANY, LLC
228 CAYUGA DR
LANSING, NY 14882

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

Permit Effective Date: 01/29/2015

Permit Expiration Date: 01/28/2020



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 2 6 NYCRR 201-6.4 (a) (7): Fees
- 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 7 6 NYCRR 202-2.1: Compliance Certification
- 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 11 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 6 NYCRR 202-1.1: Required Emissions Tests
- 19 40 CFR Part 68: Accidental release provisions.
- 20 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 21 6 NYCRR Subpart 201-6: Emission Unit Definition
- 22 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 23 6 NYCRR 211.1: Air pollution prohibited
- 24 6 NYCRR 225-1.4: Compliance Certification
- 25 6 NYCRR 225-1.4: Compliance Certification
- 26 6 NYCRR 225-1.4: Compliance Certification
- 27 6 NYCRR 225-1.5 (c): Compliance Certification
- 28 6 NYCRR 227-1.2 (a) (3): Compliance Certification
- 29 6 NYCRR 227-1.3: Compliance Certification
- 30 6 NYCRR 227-1.3: Compliance Certification
- 31 6 NYCRR 227-2.4: Compliance Certification
- 32 6 NYCRR 227-2.4 (d): Compliance Certification
- 33 6 NYCRR Subpart 244-8: Compliance Certification
- 34 40CFR 60.42c, Subpart Dc: Compliance Certification
- 35 40CFR 63, Subpart DDDDD: Compliance Certification
- 36 40CFR 63.7500, Subpart DDDDD: Compliance Certification
- 37 40CFR 63.7500, Subpart DDDDD: Compliance Certification
- 38 40CFR 63.7500, Subpart DDDDD: Compliance Certification
- 39 40CFR 63.7500, Subpart DDDDD: Compliance Certification
- 40 40CFR 63.7510(e), Subpart DDDDD: Compliance Certification
- 41 40CFR 63.7515(d), Subpart DDDDD: Compliance Certification
- 42 40CFR 63.7545(e), Subpart DDDDD: Notification of compliance status
- 43 40CFR 63.7550(b), Subpart DDDDD: Compliance Certification



- 44 40CFR 63.7555, Subpart DDDDD: Compliance Certification
 - 45 40CFR 63.9991(a)(1), Subpart UUUUU: Compliance Certification
 - 46 40CFR 63.9991(a)(1), Subpart UUUUU: Compliance Certification
 - 47 40CFR 63.9991(a)(1), Subpart UUUUU: Compliance Certification
 - 48 40CFR 63.10001, Subpart UUUUU: Affirmative Defense for Malfunctions
 - 49 40CFR 63.10021, Subpart UUUUU: Compliance Certification
 - 50 40CFR 63.10030, Subpart UUUUU: Notifications
 - 51 40CFR 63.10031, Subpart UUUUU: Reporting Requirements
 - 52 40CFR 63.10031(c), Subpart UUUUU: Compliance Reports
 - 53 40CFR 63.10032, Subpart UUUUU: Recordkeeping
 - 54 40CFR 63.10033, Subpart UUUUU: Form of Records
 - 55 40CFR 63, Subpart ZZZZ: Applicability
 - 56 40CFR 72.6(a)(1), Subpart A: Facility Subject to Title IV Acid Rain
Regulations and Permitting
- Emission Unit Level**
- 57 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
 - 58 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=M-00002

- 59 40CFR 63.7515(h), Subpart DDDDD: Compliance Certification

EU=M-00004

- 60 40CFR 60.672(e), NSPS Subpart OOO: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 61 ECL 19-0301: Contaminant List
- 62 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities
- 63 6 NYCRR 225-1.2 (g): Compliance Demonstration
- 64 6 NYCRR 225-1.2 (h): Compliance Demonstration
- 65 6 NYCRR 246.5: Annual Mercury Emission Limit
- 66 6 NYCRR 246.5 (b): Compliance Demonstration
- 67 6 NYCRR 246.6: Mercury Emission Limit 2015
- 68 6 NYCRR 246.7: Monitoring and Reporting
- 69 6 NYCRR 246.8 (c) (1): Certification Procedures for CEMs
- 70 6 NYCRR 246.8 (c) (2): Recertification for CEMs
- 71 6 NYCRR 246.8 (c) (2): Recertification Procedures for Sorbent Trap
Monitoring System
- 72 6 NYCRR 246.9: Missing Data Procedures
- 73 6 NYCRR 246.11 (a): Compliance Demonstration
- 74 6 NYCRR 246.11 (b): Compliance Demonstration
- 75 6 NYCRR 246.11 (c): Compliance Demonstration
- 76 6 NYCRR 246.11 (d): Compliance Demonstration
- 77 6 NYCRR 246.11 (e): Compliance Demonstration

Emission Unit Level

EU=M-00001

- 78 6 NYCRR 201-1.4: Compliance Demonstration
- 79 6 NYCRR 246.8 (c) (3): Compliance Demonstration

EU=M-00001,Proc=P11,ES=B0001

- 80 6 NYCRR 227-2.5 (c): Compliance Demonstration



81 6 NYCRR 227-2.5 (c): Compliance Demonstration

EU=M-00001,Proc=P21,ES=B0002

82 6 NYCRR 227-2.5 (c): Compliance Demonstration

83 6 NYCRR 227-2.5 (c): Compliance Demonstration



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

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

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

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

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

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

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

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

Item B: 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 201-6.2 (a) (4)

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

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

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

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

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

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

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

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

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

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

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



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

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

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

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

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

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

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

- i. 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 between the dates of 01/29/2015 and 01/28/2020**

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: Fees
Effective between the dates of 01/29/2015 and 01/28/2020**

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

Item 2.1:

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

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 01/29/2015 and 01/28/2020**

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



Item 3.1:

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

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

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

**Condition 4: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 01/29/2015 and 01/28/2020**

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

Item 4.1:

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

**Condition 5: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020**

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

Item 5.1:

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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



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

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

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

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill



Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

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

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

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

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



Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

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

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

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer
NYSDEC Region 7 Headquarters
615 Erie Boulevard, West
Syracuse, NY 13204-2400

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.



Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

**Condition 8: Recordkeeping requirements
Effective between the dates of 01/29/2015 and 01/28/2020**

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:

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

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

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

**Condition 9: Open Fires - Prohibitions
Effective between the dates of 01/29/2015 and 01/28/2020**

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

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

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.
- (d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous



Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 11.1:

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

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility

Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 13.1:

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

Condition 14: Trivial Sources - Proof of Eligibility

Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 14.1:

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

Condition 15: Requirement to Provide Information

Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 15.1:

The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for



modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

Condition 16: Right to Inspect
Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 16.1:

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

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

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

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

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

Condition 17: Off Permit Changes
Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 17.1:

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

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



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

Condition 18: Required Emissions Tests
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 18.1:

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

Condition 19: Accidental release provisions.
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40 CFR Part 68

Item 19.1:

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

- a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;
- b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:
 - 1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,
 - 2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

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

Condition 20: Recycling and Emissions Reduction
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 82, Subpart F

Item 20.1:

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



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

Condition 21: Emission Unit Definition
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 21.1:

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

Emission Unit: M-00001

Emission Unit Description:

Cayuga Station consists of two generator units. The following identifiers will be used: Cayuga boilers, EU M00001; stack 1, EP New01; stack 2, EP New02; bypass stack, EP New03; Boiler1, ES B0001; Boiler 1 ESP, ES ESP01; Boiler 1 FGD system, ES FGD01; Boiler 1 SCR, ES SCR01; Boiler 2, ES B0002; Boiler 2 ESP, ES ESP02; Boiler 2 FGD, ES FGD02. Processes for Boiler 1: firing bituminous coal, P11; firing No. 2 oil or diesel fuel, P12. Processes for Boiler 2: firing bituminous coal, P21; firing No. 2 oil or diesel fuel, P22. Steam for Generating Unit 1 is supplied by ES B0001. Emission source B0001 primarily exhausts through EP NEW01, but is has the capability of also exhausting through emission points NEW02 and NEW03. ES B0001 is a Combustion Engineering dry bottom, tangentially fired boiler rated at 1,484 mmBtu/hr maximum heat input. The boiler burns bituminous coal as its primary fuel. No. 2 fuel oil or diesel fuel is used for startup and flame stabilization.

Steam for Generating Unit 2 is supplied by ES B0002. Emission source B0002 primarily exhausts through EP NEW02, but is has the capability of also exhausting through emission points NEW01 and NEW03. ES B0002 is a Combustion Engineering dry bottom, tangentially fired boiler rated at 1,517 mmBtu/hr maximum heat input. The boiler burns bituminous coal as its primary fuel. No. 2 fuel oil or diesel fuel is used for startup and flame stabilization.

Emission sources B0001 and B0002 are each equipped with an electrostatic precipitator to control particulate matter emissions. SO₂ emissions are controlled by a flue gas desulfurization (FGD) system capable of up to 98% removal efficiency. There is a module for each boiler; each module has its own stack. Generally, emission source B0001 is controlled by emission source FGD01 and emission



source B0002 is controlled by emission source FGD02, but the FGD system is designed such that the gas from either boiler can be treated by either module. In addition, there is a bypass stack which may be used during a boiler startup, shutdown, and in the case of an FGD module problem. Nitrogen oxide emissions are controlled through the use of a Level III low NOx concentric firing system (LNCFS-III) installed on each boiler and good combustion practices. In addition, an SCR is installed on Boiler 1.

A URS/Gore Mercury Control System (GMCS) is a fixed-bed system consisting of Sorbent Polymer Composite (SPC). The SPC is configured into Gore modules each 2 feet deep by 2 feet wide by 1 foot high. There are 140 Gore modules per layer and five layers will be installed with the sixth layer used as a spare. The GMCS contains lower wash and intermediate wash headers for periodic cleaning of the Gore modules. The GMCS will be located downstream of the FGD mist eliminators at the upper portion of the FGD absorber vessel. The Gore system will have a source ID of MCS02 and be used to control emissions from Boiler 2.

When combusting fuel, combustion gases may not flow through the by-pass stack except during emergency periods if the health and safety of personnel is jeopardized or during an unavoidable malfunction. Fuel flow to the boiler shall cease as soon as possible once flue gases start to flow through the by-pass stack. The owner or operator shall comply with the reporting requirements of 6 NYCRR Part 201-1.4 if the by-pass stack is utilized for combustion gases when firing fuel.

These units are subject to the federal Cross State Air Pollution Rules, found at 40 CFR Part 97, Subparts AAAAA-DDDDD. The DEC will add conditions to implement these standards upon receipt of permit language from the EPA.

Building(s): BOILER

Item 21.2:

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

Emission Unit: M-00002

Emission Unit Description:

500 hp (20.9 mmBtu/hr) Cleaver Brooks Firtube boiler; Emission Source AUXB1. No. 2 oil fired, used to generate low pressure steam for heating the building when boilers 1 and 2 are off line.

Building(s): BOILER



Item 21.3:

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

Emission Unit: M-00003

Emission Unit Description:

This emission unit designates the coal handling system. The emission source is the Coal Storage Pile, CPILE; the process is the Coal Handling and Storage, CHS. Coal is delivered to Cayuga Station by train and truck. Rail cars are unloaded using a rotary car dumper in the coal unloading building. Frozen coal is thawed using heated air generated by burners firing Number 2 oil. The coal is dumped from the rail cars into a hopper, and is fed to an enclosed conveyor which transports the coal to the apron conveyor and onto the coal storage pile. Coal delivered by truck is dumped directly onto the coal storage pile. A bulldozer is used to shape the pile and reclaim coal from the storage pile by pushing the coal into a reclaim hopper. Two reclaim hoppers are used, each located in a different area of the coal pile to facilitate blending of coal from different sources. Each reclaim hopper discharges to an enclosed conveyor which transports the coal to the bunkers for Boiler 1 and Boiler 2. All potential emissions from this emission unit are fugitive and there are no emission unit specific applicable requirements (i.e., only facility-wide requirements apply).

Item 21.4:

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

Emission Unit: M-00004

Emission Unit Description:

Limestone and Gypsum Handling Systems. The following identifiers will be used: Emission Source LPILE designates the limestone storage pile; Emission Source LCONV designates the limestone belt conveyor; Emission Sources LIMS1 and LIMS2 designate the limestone storage bins 1 and 2; and Emission Sources LGRD1 and LGRD2 designate two limestone grinders. Crushed limestone is delivered to Cayuga Station by truck and is either dumped onto the storage pile or directly into the reclaim hopper. A front end loader is used to shape the pile and transfer limestone to the reclaim hopper as needed. The reclaim hopper discharges through a feeder to a belt conveyor inside the reclaim facility building. An insertable dust collector is used at the transfer point with exhaust air recirculated to the building. The belt conveyor transports the limestone to storage bins LIMS1 and LIMS2 located in the FGD building. Outdoor portions of the conveyor are enclosed. An insertable dust collector is used at the belt conveyor discharge with exhaust air recirculated to the building.



The two limestone storage bins are equipped with bin vent filters that discharge indoors. Each storage bin feeds a wet ball mill grinder used to prepare the limestone slurry for use in the FGD system wet scrubber.

Limestone slurry is converted to either calcium sulfate or gypsum in each wet scrubber (scrubber blowdown) and is dewatered in centrifuges located in the FGD building. The dewatered material (predominantly calcium sulfate, or gypsum) is transported to a storage pile in the Gypsum Storage Building via a series of belt conveyors. Outdoor portions of the belt conveyor are enclosed. The gypsum is loaded onto trucks using a front end loader and is sold for use in the construction products industry (e.g., wallboard, cement) or, if necessary, is transported to the on-site landfill where it is disposed with the boiler flyash.

All potential emissions from this emission unit are fugitive. The limestone belt conveyor, storage bins and wet ball mill grinders are affected facilities under 40 CFR Part 60, Subpart OOO, Standards of Performance for Nonmetallic Mineral Processing Plants.

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 01/29/2015 and 01/28/2020

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: Air pollution prohibited
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR 211.1

Item 23.1:

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 24: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 6 NYCRR 225-1.4

Item 24.1:

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

Emission Unit: M-00001
Process: P11 Emission Source: B0001

Emission Unit: M-00001
Process: P21 Emission Source: B0002

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

Item 24.2:

Compliance Certification shall include the following monitoring:

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

The owner or operator shall not cause or allow emissions of sulfur dioxide in excess of 5.0 pounds SO₂ per million Btu from each emission point, based on a 24 hour Btu-weighted average. This limit is the SO₂ lb/MMBTU equivalent emission rate for 2.5 lb Sulfur/MMBTU fuel limit from 6 NYCRR 225-1.2(b) and (c).

Compliance shall be determined using Continuous Emissions Monitoring Systems installed, maintained and operated in accordance with 40 CFR Part 75. The bias adjustment factor shall not be used to adjust the data.

On a calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. Such report shall state the date each period of excess emissions began and ended; the average magnitude of such excess emission; the cause of the excess emissions; and the corrective action taken to abate such excess emissions.

Manufacturer Name/Model Number: Part 75 CEM
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 5.0 pounds per million Btus
Reference Test Method: 40 CFR Part 75 CEMs

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Manufacturer Name/Model Number: Part 75 CEM
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 3.8 pounds per million Btus
Reference Test Method: 40 CFR Part 75 CEMs
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-MONTH AVERAGE ROLLED MONTHLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 26: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 6 NYCRR 225-1.4

Item 26.1:

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

Emission Unit: M-00001	
Process: P11	Emission Source: B0001
Emission Unit: M-00001	
Process: P21	Emission Source: B0002
Regulated Contaminant(s):	
CAS No: 007446-09-5	SULFUR DIOXIDE

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The owner or operator shall not cause or allow emissions of sulfur dioxide in excess of 3.4 pounds SO₂ per million Btu from each emission point based on a twelve consecutive month rolling Btu-weighted average. This limit is the SO₂ lb/MMBTU equivalent emission rate for 1.7 lb Sulfur/MMBTU fuel limit from 6 NYCRR 225-1.2(b) and (c).

Compliance shall be determined using Continuous Emissions Monitoring Systems installed, maintained and operated in accordance with 40 CFR Part 75. The bias adjustment factor shall not be used to adjust the data.

On a calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. Such report shall state the date each period of excess

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



emissions began and ended; the average magnitude of such excess emission; the cause of the excess emissions; and the corrective action taken to abate such excess emissions.

Manufacturer Name/Model Number: Part 75 CEM
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 3.4 pounds per million Btus
Reference Test Method: 40 CFR Part 75 CEMs
Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 27: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 6 NYCRR 225-1.5 (c)

Item 27.1:

The Compliance Certification activity will be performed for the Facility.

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Measurements must be made daily of the rate of each fuel fired. The gross heat content and ash content of each fuel fired must be determined at least once each week. In the case of stationary combustion installations producing electricity for sale, the average electrical output and the hourly generation rate must also be measured.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 28: Compliance Certification

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR 227-1.2 (a) (3)

Item 28.1:

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

Emission Unit: M-00001

Process: P11

Emission Unit: M-00001

Process: P21

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate matter emissions shall not exceed 0.1 pounds per million BTU. Compliance shall be demonstrated through stack testing conducted in accordance with 40 CFR Part 60, App A, Method 5 and a protocol approved by the DEC. Testing shall be conducted at least once per permit term and at any other time when requested by the DEC.

The owner or operator shall submit to the DEC a protocol for testing no later than 30 days prior to conducting such tests. Results of the test shall be submitted to the DEC no later than 60 days after completion of such tests.

In the annual certification report, the owner or operator shall state whether a test was conducted in that reporting period and if so, the results of such tests.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.1 pounds per million Btus

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

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 29: Compliance Certification

Effective between the dates of 01/29/2015 and 01/28/2020



Applicable Federal Requirement:6 NYCRR 227-1.3

Item 29.1:

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

Emission Unit: M-00002

Item 29.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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.

The owner or operator shall:

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

This logbook must be retained at the facility for five (5) years after the date of the last entry.

- 3) If the operator observes any visible emissions (other than condensed water vapor - see below), then a Method 9 analysis (based upon a 6-minute mean) must be conducted within two (2) weekday boiler operating days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is exceeded. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.



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

On a semi-annual basis, the owner or operator must report to the DEC (in the semi-annual report required elsewhere in the permit) whether any observations were taken and if so, the results of such observation.

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.

The initial report is due 7/30/2015.

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

Condition 30: Compliance Certification

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: M-00001

Emission Point: NEW01

Emission Unit: M-00001

Emission Point: NEW02

Emission Unit: M-00001

Emission Point: NEW03

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1. The owner or operator shall not 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. Compliance with the opacity standard may be determined by:

(a) conducting observations in accordance with Reference Method 9;

(b) evaluating Continuous Opacity Monitoring System (COMS) records and reports; and/or

(c) considering any other credible evidence.

3. The owner or operator 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. The COMs may be installed at a suitable location in the ductwork downstream of the ESP and upstream of the FGD system or alternatively in the stack.

4. The owner or operator shall submit an accurate excess emissions and monitoring system performance report to the department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and postmarked by the 60th day following the end of each calendar quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the department and shall include the following minimum information:

(a) the magnitude, date and time of each six minute block average during which the average opacity of emissions exceeds 20 percent, except for one six minute block average per hour not to exceed 27 percent;

(b) for each period of excess emission, specific identification of the cause and corrective action taken;

(c) identification of all periods of COMS downtime, including the date, time and duration of each inoperable period, and the cause and corrective action for each COMS downtime period;

(d) the total time in which the COMS are required to record data during the reporting period;

(e) 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

(f) such other things as the department may deem necessary, proper or desirable in order to enforce article 19 of the Environmental Conservation Law or the rules promulgated thereunder

5. This condition applies only when combusting fuel and/or operating the induced draft fan.

Manufacturer Name/Model Number: Continuous opacity monitor
Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: EPA Part 60, Appendix B PS1
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 60 days after the reporting period.
The initial report is due 5/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 31: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 6 NYCRR 227-2.4

Item 31.1:

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

Emission Unit: M-00001
Process: P11 Emission Source: B0001

Emission Unit: M-00001
Process: P21 Emission Source: B0002

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

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition is applicable until June 30, 2014.

1. The owner or operator shall not cause or allow emissions to the atmosphere in excess of 0.42 pounds NO_x per million Btu. Compliance shall be based on a 24 hour daily heat input rated average (block average) during the



period May 1 through September 30, inclusive. From October 1 to April 30, inclusive, compliance shall be based on a 30 day rolling heat input (Btu) weighted average; compliance is assessed at 12:00 pm midnight each day.

2. Compliance shall be determined either on an individual unit basis or a heat input-weighted system average units involving the boilers at the Cayuga and Somerset power plants.
3. The owner or operator must calculate all 24-hour daily heat input-weighted average NOx emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NOx per million Btu. Allowable emissions shall be computed as the product of the allowable emission rate and the actual heat input. Actual emissions shall be computed as the product of the actual average emission rate and the actual heat input.
4. Emissions shall be monitored in accordance with 6 NYCRR 227-2.6(b).
5. The owner or operator must comply with the recordkeeping and reporting requirements in 6 NYCRR 227-2.6(b)(4). Quarterly reports are due no later than 30 days after the end of each calendar quarter.

Manufacturer Name/Model Number: Continuous Emission Monitor
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.42 pounds per million Btus
Reference Test Method: 40 CFR Part 75
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 32: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

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

Item 32.1:

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

Emission Unit: M-00002

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Regulated Contaminant(s):

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

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to the small boilers at the facility.

The owner or operator must perform an annual tune-up in accordance with the requirements of the DAR-5 guidance document.

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 33: Compliance Certification

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR Subpart 244-8

Item 33.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 33.2:

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 Clean Air Interstate Rule (CAIR) designated representative, of a CAIR NOx unit, shall comply with the monitoring, recordkeeping, and reporting requirements as provided in Subpart 6 NYCRR Part 244-8 and in Subpart H of 40 CFR Part 75. For purposes of complying with such requirements, the definitions in section 244-1.2 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 unit," "CAIR designated representative," and "continuous emission



monitoring system" (or "CEMS") respectively, as defined in section 244-1.2. [244-8.1]

2) 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 NOx 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)]

3) 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)]

4) The owners and operators, and to the extent applicable, the CAIR designated representative shall comply with all recordkeeping and reporting requirements in section 244-8.5, the applicable recordkeeping and reporting requirements under 40 CFR 75, and the requirements of 6NYCRR Part 244-2.1(e)(1). [244-8.5(a)]

5) The owner or operator of a CAIR NOx unit shall comply with requirements of 40 CFR 75.73(c) and (e) for monitoring plans. [244-8.5(b)]

6) The CAIR designated representative shall submit a certification application to the department within 45 days after completing all initial certification or



recertification tests required under section 244-8.2, including the information required under 40 CFR 75.63. [244-8.5(c)]

7) The CAIR designated representative shall submit quarterly reports of the NO_x mass emissions data and heat input data for each CAIR NO_x unit, in an electronic quarterly report in a format prescribed by the Administrator, for each calendar quarter beginning with the calendar quarter covering January 1, 2008 through March 31, 2008; unless the unit commences commercial operation on or after July 1, 2007, then quarterly reporting commences with the calendar quarter corresponding to the earlier of the date of provisional certification or the applicable deadline for initial certification under section 244-8.1(b). [244-8.5(d)(1)]

8) 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). [244-8.5(d)(2)]

9) For CAIR NO_x units that are also subject to an Acid Rain emissions limitation or the CAIR NO_x Ozone Season Trading Program, CAIR SO₂ 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_x mass emission data, heat input data, and other information required by Subpart 244-8. [244-8.5(d)(3)]

10) 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_x emission controls and for all hours where NO_x 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 NOx emissions.

Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 40CFR 60.42c, Subpart Dc

Item 34.1:

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

Emission Unit: M-00002

Item 34.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The package boiler is subject to the Standards of Performance for Small Industrial-Commercial- Institutional Steam Generating Units.

1. On and after the date on which the initial performance test is completed or required to be completed under § 60.8, whichever date comes first, no owner or operator of an affected facility that combusts oil shall cause to be discharged into the atmosphere from that affected facility any gases that contain SO₂ in excess of 215 ng/J (0.50 lb/MMBtu) heat input from oil; or, as an alternative, no owner or operator of an affected facility that combusts oil shall combust oil in the affected facility that contains greater than 0.5 weight percent sulfur. The percent reduction requirements are not applicable to affected facilities under this paragraph.

A more stringent limit appears elsewhere in this permit, effective July 1, 2016.

2. Compliance with the emission limits or fuel oil sulfur limits under this section shall be determined based on a certification from the fuel supplier, as described under § 60.48c(f), as applicable.

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Facility DEC ID: 7503200019



3. The owner or operator shall keep records and submit reports as required under 40 CFR Part 60, Subpart Dc, including the following information, as applicable.

(1) Calendar dates covered in the reporting period.

(2) If fuel supplier certification is used to demonstrate compliance,

(i) The name of the oil supplier;

(ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in § 60.41c; and

(iii) The sulfur content or maximum sulfur content of the oil.

In addition to records of fuel supplier certifications, the report shall include a certified statement signed by the owner or operator of the affected facility that the records of fuel supplier certifications submitted represent all of the fuel combusted during the reporting period.

4. The owner or operator of each affected facility shall record and maintain records of the amount of fuel combusted each day or each month.

5. All records required under this condition shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record.

6. The reporting period for the reports required under Subpart Dc is each six-month period. All reports shall be submitted to the Administrator and the DEC and shall be postmarked by the 30th day following the end of the reporting period.

7. In the semi-annual report, the owner or operator shall state whether he or she has complied with this condition.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.5 percent by weight

Reference Test Method: Fuel Certification

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.



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

Condition 35: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63, Subpart DDDDD

Item 35.1:

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

Emission Unit: M-00002

Item 35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Aux boiler 1 is subject to all applicable requirements of Boiler MACT. The 40 CFR 63, Subpart DDDDD Boiler MACT regulations as published in the federal register will apply.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2016.
Subsequent reports are due every 12 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7500, Subpart DDDDD

Item 36.1:

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

Emission Unit: M-00002

Regulated Contaminant(s):

CAS No: 0NY507-00-0

40 CFR 63 SUBPART DDDDD TOTAL SELECTED METALS

Item 36.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The package boilers meet the light liquid fuel



subcategory of 40 CFR 63.7499 and must comply with the following, on and after January 31, 2016:

1. The boilers must meet the Total Selected Metals emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD. The owner or operator shall not cause or allow the emission to the atmosphere of TSM in excess of 0.000062 pound per million Btu heat input, or 0.000075 pound per million Btu steam output. Alternatively, the owner or operator shall not cause or allow the emission to the atmosphere from each boiler of particulate matter in excess of 0.0079 pound per million Btu heat input, or 0.0096 pound per million Btu steam output.
2. Compliance shall be demonstrated based on a monthly fuel analysis conducted according to a site specific fuel sampling and analysis plan as described in 40 CFR § 63.7521 for each type of fuel burned that is subject to an emission limit. The fuel analysis may be conducted any time within the calendar month as long as the analysis is separated from the previous analysis by at least 14 calendar days. If each of 12 consecutive monthly fuel analyses demonstrates 75 percent or less of the compliance level, the owner or operator may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly sample exceeds 75 percent of the compliance level or the owner or operator begins burning a new type of fuel, the owner or operator must return to monthly monitoring for that fuel, until 12 months of fuel analyses are again less than 75 percent of the compliance level.
3. As an alternative to fuel sampling, the owner or operator may elect to demonstrate compliance using stack test methods in accordance with 40 CFR Part 63, Subpart DDDDD. If the owner so elects, or is otherwise required to conduct testing, the owner or operator must follow the frequency specified in 40 CFR 63.7515.
4. The owner or operator shall submit a Compliance Certification Report on a semi-annual basis containing the information required in 40 CFR 63.7550.

Parameter Monitored: 40 CFR 63 SUBPART DDDDD TOTAL SELECTED METALS
Upper Permit Limit: 0.000062 pounds per million Btus
Reference Test Method: 40 CFR part 63, Subpart DDDDD, Table 6
Monitoring Frequency: MONTHLY
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2015.



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

Condition 37: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7500, Subpart DDDDD

Item 37.1:

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

Emission Unit: M-00002

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 37.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The package boilers meet the light liquid fuel subcategory of 40 CFR 63.7499 and must comply with the following, on and after January 31, 2016:

1. The boilers must meet the mercury emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD. The owner or operator shall not cause or allow the emission to the atmosphere of mercury in excess of 0.0000020 pounds per million Btu heat input or 0.0000025 pounds per million Btu steam output.
2. Pursuant to 40 CFR 63.7505(c), the owner or operator may demonstrate compliance with the applicable emission limit for mercury using fuel analysis if the emission rate calculated according to §63.7530(c) is less than the applicable emission limit. Otherwise, the owner or operator must demonstrate compliance for mercury using performance testing. If compliance is demonstrated based on a monthly fuel analysis, such demonstration must be conducted according to a site specific fuel sampling and analysis plan as described in 40 CFR § 63.7521. The fuel analysis may be conducted any time within the calendar month as long as the analysis is separated from the previous analysis by at least 14 calendar days. If each of 12 consecutive monthly fuel analyses demonstrates 75 percent or less of the compliance level, the owner or operator may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly sample exceeds 75 percent of the compliance level or the owner or operator begins burning a new type of fuel, the owner or



operator must return to monthly monitoring for that fuel, until 12 months of fuel analyses are again less than 75 percent of the compliance level.

3. As an alternative to fuel sampling, the owner or operator may elect to demonstrate compliance using stack test methods in accordance with 40 CFR Part 63, Subpart DDDDD. If the owner so elects, or is otherwise required to conduct testing, the owner or operator must follow the frequency specified in 40 CFR 63.7515.

4. The owner or operator shall submit a Compliance Certification Report on a semi-annual basis containing the information required in 40 CFR 63.7550.

Parameter Monitored: MERCURY

Upper Permit Limit: 0.0000020 pounds per million Btus

Reference Test Method: 40 CFR Part 63, Subpart DDDDD, Table 6

Monitoring Frequency: MONTHLY

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

Condition 38: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 40CFR 63.7500, Subpart DDDDD

Item 38.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: M-00002

Regulated Contaminant(s):

CAS No: 007647-01-0 HYDROGEN CHLORIDE

Item 38.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The package boilers meet the light liquid fuel subcategory of 40 CFR 63.7499 and must comply with the following, on and after January 31, 2016:

1. The boilers must meet the HCl emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD. The owner or



operator shall not cause or allow the emission to the atmosphere of HCl in excess of 0.0011 pounds per million Btu heat input, or 0.0014 pounds per million Btu steam output.

2. Pursuant to 40 CFR 63.7505(c), the owner or operator may demonstrate compliance with the applicable emission limit for HCl using fuel analysis if the emission rate calculated according to §63.7530(c) is less than the applicable emission limit. Otherwise, the owner or operator must demonstrate compliance for HCl using performance testing. If compliance is demonstrated based on a monthly fuel analysis, such demonstration must be conducted according to a site specific fuel sampling and analysis plan as described in 40 CFR § 63.7521. The fuel analysis may be conducted any time within the calendar month as long as the analysis is separated from the previous analysis by at least 14 calendar days. If each of 12 consecutive monthly fuel analyses demonstrates 75 percent or less of the compliance level, the owner or operator may decrease the fuel analysis frequency to quarterly for that fuel. If any quarterly sample exceeds 75 percent of the compliance level or the owner or operator begins burning a new type of fuel, the owner or operator must return to monthly monitoring for that fuel, until 12 months of fuel analyses are again less than 75 percent of the compliance level.

3. As an alternative to fuel sampling, the owner or operator may elect to demonstrate compliance using stack test methods in accordance with 40 CFR Part 63, Subpart DDDDD. If the owner so elects, or is otherwise required to conduct testing, the owner or operator must follow the frequency specified in 40 CFR 63.7515.

4. The owner or operator shall submit a Compliance Certification Report on a semi-annual basis containing the information required in 40 CFR 63.7550.

Parameter Monitored: HYDROGEN CHLORIDE
Upper Permit Limit: 0.0011 pounds per million Btus
Reference Test Method: 40 CFR part 63, Subpart DDDDD, Table 6
Monitoring Frequency: MONTHLY
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020



Applicable Federal Requirement:40CFR 63.7500, Subpart DDDDD

Item 39.1:

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

Emission Unit: M-00002

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The package boilers meet the light liquid fuel subcategory of 40 CFR 63.7499 and must comply with the following, on and after January 31, 2016:

1. The boilers must meet the carbon monoxide emission limit in Table 2 of 40 CFR Part 63, Subpart DDDDD. The owner or operator shall not cause or allow the emission to the atmosphere of CO in excess of 130 ppm corrected to 3% O₂ or 0.13 pounds per million Btu steam output.
2. Compliance shall be demonstrated based on a stack test as specified in Table 5 and 40 CFR 63.7520 and conducted according to a site specific test plan.
3. The owner or operator must install an oxygen analyzer system and operate it in accordance with a site specific O₂ monitoring plan pursuant to 40 CFR 63.7505(d).
4. The owner or operator must maintain the 30 day average oxygen content at or above the O₂ level recorded during the most recent CO test.
5. The owner or operator must monitor operating load and must not exceed the maximum operating load as described in 40 CFR Part 63, Subpart DDDDD, Table 7.
6. The owner or operator shall submit a Compliance Certification Report on a semi-annual basis containing the information required in 40 CFR 63.7550.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 130 parts per million by volume
(dry, corrected to 3% oxygen)

Reference Test Method: 40 CFR Part 63, Subpart DDDDD, Table 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.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7510(e), Subpart DDDDD

Item 40.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: M-00002

Item 40.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The boilers are subject to 40 CFR Part 60, Subpart DDDDD, which requires an initial tune-up and an energy assessment.

1. The owner or operator shall complete an initial tune up no later than January 31, 2016. The owner or operator shall follow the procedures in 40 CFR 63.7540(a)(10)(i)-(vi).
2. The owner or operator shall complete an energy assessment as specified in 40 CFR Part 63, Subpart DDDDD, Table 3, no later than January 31, 2016.
3. The owner or operator shall state whether he or she has complied with this requirement in his or her Notification of Compliance Status, which shall be submitted to the DEC and the EPA no later than 60 days after completion of these activities, or 60 days after completion of stack emissions testing, if applicable (required for light liquid fuel subcategory boilers).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 41: Compliance Certification



Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7515(d), Subpart DDDDD

Item 41.1:

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

Emission Unit: M-00002

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Boilers with a heat input capacity of 10 million Btu per hour or greater must conduct an annual tune-up as specified in 40 CFR 63.7540(a)(10) and must be conducted no more than 13 months after the previous tune-up. New or reconstructed boilers must conduct the first annual tune-up no later than 13 months after the initial startup of the affected source.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

Condition 42: Notification of compliance status

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7545(e), Subpart DDDDD

Item 42.1:

This Condition applies to:

Emission Unit: M00002

Item 42.2:

Owners and operators that are required to conduct an initial compliance demonstration as specified in 40 CFR 63.7530 must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). For the initial compliance demonstration for each affected source, the owner or operator must submit the Notification of Compliance Status, including all performance test results and fuel analyses, before the close of business on the 60th day following the completion of all performance test and/or other initial compliance demonstrations for the affected source according to 40 CFR 63.10(d)(2). The Notification of Compliance Status report must contain all the information specified in 40 CFR 63.7545(e)(1) through (8), as applicable.

Condition 43: Compliance Certification



Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7550(b), Subpart DDDDD

Item 43.1:

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

Emission Unit: M-00002

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Unless the EPA Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the owner or operator must submit each report, according to 40 CFR 63.7550(h), by the date in Table 9 to subpart DDDDD and according to the requirements in (1) through (4). For units that are subject only to a requirement to conduct an annual, biennial, or 5-year tune-up according to 40 CFR 63.7540(a)(10), (11), or (12), respectively, and not subject to emission limits or operating limits, the owner or operator may submit only an annual, biennial, or 5-year compliance report, as applicable, as specified in paragraphs (1) through (4), instead of a semiannual compliance report.

(1) The first compliance report must cover the period beginning on the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495 and ending on July 31 or January 31, whichever date is the first date that occurs at least 180 days (or 1, 2, or 5 years, as applicable, if submitting an annual, biennial, or 5-year compliance report) after the compliance date that is specified for the owner or operators source in 40 CFR 63.7495.

(2) The first compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the first calendar half after the compliance date that is specified for each boiler or process heater in 40 CFR 63.7495. The first annual, biennial, or 5-year compliance report must be postmarked or submitted no later than January 31.

(3) Each subsequent compliance report must cover the semiannual reporting period from January 1 through June 30 or the semiannual reporting period from July 1 through December 31. Annual, biennial, and 5-year compliance



reports must cover the applicable 1-, 2-, or 5-year periods from January 1 to December 31.

(4) Each subsequent compliance report must be postmarked or submitted no later than July 31 or January 31, whichever date is the first date following the end of the semiannual reporting period. Annual, biennial, and 5-year compliance reports must be postmarked or submitted no later than January 31.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 44: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7555, Subpart DDDDD

Item 44.1:

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

Emission Unit: M-00002

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must maintain the following records:

1. A copy of each notification and report that you submitted to comply with this subpart, including all documentation supporting any Initial Notification or Notification of Compliance Status or semiannual compliance report that you submitted, according to the requirements in § 63.10(b)(2)(xiv).
2. Records of performance tests, fuel analyses, or other compliance demonstrations and performance evaluations as required in § 63.10(b)(2)(viii).
3. For each unit in the 'units designed to burn gas 1" subcategory in which fuel oil is combusted, the owner or operator must keep records of the total hours per calendar year that fuel oil is burned and the total hours per calendar year that the unit operated during periods of gas curtailment or gas supply emergencies.
4. Records of the calendar date, time, occurrence and



duration of each startup and shutdown and records of the type(s) and amount(s) of fuels used during each startup and shutdown.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 45: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 40CFR 63.9991(a)(1), Subpart UUUUU

Item 45.1:

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

Emission Unit: M-00001

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

Item 45.2:

Compliance Certification shall include the following monitoring:

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

1. The owner or operator must comply with 40 CFR Part 63, Subpart UUUUUU as published in the Federal Register.
2. The owner or operator must comply no later than April 16, 2015. The owner must demonstrate that compliance has been achieved no later than October 13, 2015. These dates may be extended by the EPA.
3. Emissions of sulfur dioxide, used as a surrogate for acid HAP gases, to the atmosphere from each boiler shall not exceed 0.20 pounds SO₂ per million Btu heat input, or 1.5 pounds/MWh gross electrical output. The averaging time is an arithmetic 30 boiler operating day rolling average computed using equation 19-19 of EPA Method 19. See 40 CFR 63.10005(d)(1). 40 CFR 63.10007(e)(3) describes how to calculate emissions in units of pounds per MWh. The owner or operator must operate the CEMs and collect data as specified in 40 CFR 63.10020. Data collected during startup, shutdown, and out of control periods are not to be used for compliance.
4. Alternatively, the owner or operator may comply with the hydrogen chloride (HCl) limit in Table 2 of 40 CFR Part 63, Subpart UUUUU. Compliance with the HCl limit



shall be demonstrated either using a continuous emission monitor meeting the requirements of 40 CFR 63, Subpart UUUUU, Appendix B, or through periodic sampling and analysis. If CEMS or CPMS are not installed or operated, the owner or operator must conduct compliance tests on a quarterly basis in accordance with 40 CFR Part 63, Subpart UUUUU.

5. Compliance with the SO₂ limit shall be demonstrated using a continuous emission monitor meeting the requirements of 40 CFR Part 75. A bias-adjustment factor shall not be applied to the emissions data. 40 CFR 63.10007(e)(3) describes the procedures to calculate emissions on an output basis.

6. The owner or operator may comply with a system average; see 40 CFR 63.10009. If the facility chooses to use an emissions averaging plan, the owner or operator must submit an emissions averaging plan to DEC no later than December 16, 2014 or as extended by the EPA Administrator.

7. These limits apply at all times except during periods of startup and shutdown; however, you are required to meet the work practice requirements in Table 3 to 40 CFR Part 63, Subpart UUUUU during periods of startup or shutdown.

8. The owner or operator shall keep records as specified in 40 CFR 63.10032.

9. The owner or operator shall submit reports as required in 40 CFR 63.10031, including the electronic reporting provisions.

Reports shall be submitted semi-annually.

Manufacturer Name/Model Number: CEM
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 0.20 pounds per million Btus
Reference Test Method: 40 CFR Part 75 CEMS
Monitoring Frequency: CONTINUOUS
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 46: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020



Applicable Federal Requirement: 40 CFR 63.9991(a)(1), Subpart UUUUU

Item 46.1:

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

Emission Unit: M-00001

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1. The owner or operator must comply with 40 CFR Part 63, Subpart UUUUUU as published in the Federal Register.
2. The owner or operator must comply no later than April 16, 2015. The owner must demonstrate that compliance has been achieved no later than October 13, 2015. These dates may be extended by the EPA Administrator.
3. Emissions of filterable particulate matter, used as a surrogate for metal HAP particulate, to the atmosphere from each boiler shall not exceed 0.03 pounds particulate matter per million Btu heat input, or 0.30 pounds/MWh gross electrical output.
4. Alternatively, the owner or operator may comply with the total non-Hg HAP limit or the individual metal HAP limits in Table 2 of 40 CFR Part 63, Subpart UUUUU.
5. Initial compliance shall be demonstrated through stack testing as specified in 40 CFR Part 60 Subpart DDDDD Table 2, Table 5 and 40 CFR 63.10005. The owner or operator shall submit to the DEC a protocol 30 days prior to commencing the test and a final report no later than 60 days after completion of the tests.
6. If particulate matter CEMs or CPMS are not installed and operated, the owner or operator must conduct compliance tests on a quarterly basis. Otherwise, the owner or operator must conduct PM tests at least every year, within 11 to 13 calendar months after the previous performance test.
7. If the owner or operator installs PM CEMs, the initial performance test is 30 boiler operating days of quality-assured CEM data. See 40 CFR 63.10005(a)(2). The



owner or operator must install and certify the PM CEMS according to Performance Specification 11 of 40 CFR Part 60, Appendix B, including conducting a relative response audit annually and a relative correlation audit at least every three years. See 40 CFR 63.10010(i),

8. If the owner or operator installs a PM CPMS, then the owner or operator must comply with 40 CFR 63.10000(d), 63.10010(h) and 40 CFR 63.10023.

If the owner or operator installs a PM CPMS, then the owner or operator must maintain the 30-boiler operating day rolling average PM CPMS output at or below the highest 1-hour average measured during the most recent performance test demonstrating compliance with the filterable PM, total non-mercury HAP metals (total HAP metals, for liquid oil-fired units), or individual non-mercury HAP metals (individual HAP metals including Hg, for liquid oil-fired units) emissions limitation(s).

9. The owner or operator may comply with a system average; see 40 CFR 63.10009. If the facility chooses to use an emissions averaging plan, the owner or operator must submit an emissions averaging plan to DEC no later than December 16, 2014 or as extended by the EPA Administrator.

10. These limits apply at all times except during periods of startup and shutdown; however, you are required to meet the work practice requirements in Table 3 to 40 CFR Part 63, Subpart UUUUU during periods of startup or shutdown.

11. The owner or operator shall keep records as specified in 40 CFR 63.10032.

12. The owner or operator shall submit reports as required in 40 CFR 63.10031, including the electronic reporting provisions.

Reports shall be submitted semi-annually.

Manufacturer Name/Model Number: CPMS
Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.03 pounds per million Btus
Reference Test Method: EPA Method 5 or PCEMS
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.
The initial report is due 7/30/2015.
Subsequent reports are due every 6 calendar month(s).

Condition 47: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 40CFR 63.9991(a)(1), Subpart UUUUU

Item 47.1:

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

Emission Unit: M-00001

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1. The owner or operator must comply with 40 CFR Part 63, Subpart UUUUUU as published in the Federal Register.
2. The owner or operator must comply no later than April 16, 2015. The owner must demonstrate that compliance has been achieved no later than October 13, 2015. These dates may be extended by the EPA Administrator.
3. Emissions of mercury to the atmosphere from each boiler shall not exceed 1.2 pounds Hg per trillion Btu, or 0.013 lb Hg per GWh, based on the arithmetic average of 30 boiler operating days of quality-assured CEM or sorbent trap data. See 40 CFR 63.10005(d)(3). 40 CFR 63.10007(e)(3) describes how to calculate emissions in units of pounds per MWh.
4. Compliance shall be demonstrated using a continuous emission monitor or sorbent trap data. The owner or operator must operate the CMS and collect data as specified in 40 CFR 63.10020. Data collected during startup, shutdown, and out of control periods are not to be used for compliance.
5. The owner or operator may comply with a system average; see 40 CFR 63.10009. If the facility chooses to use an emissions averaging plan, the owner or operator must submit an emissions averaging plan to DEC no later than December 16, 2014 or as extended by the EPA

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Administrator.

6. These limits apply at all times except during periods of startup and shutdown; however, you are required to meet the work practice requirements in Table 3 to 40 CFR Part 63, Subpart UUUUU during periods of startup or shutdown.

7. The owner or operator shall keep records as specified in 40 CFR 63.10032.

8. The owner or operator shall submit reports as required in 40 CFR 63.10031, including the electronic reporting provisions.

Reports shall be submitted semi-annually.

Manufacturer Name/Model Number: CMS

Parameter Monitored: MERCURY

Upper Permit Limit: 1.2 pounds per trillion British thermal units

Reference Test Method: Part 63, Appendix A

Monitoring Frequency: QUARTERLY

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

Condition 48: Affirmative Defense for Malfunctions
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 40CFR 63.10001, Subpart UUUUU

Item 48.1:

This Condition applies to:

Emission Unit: M00001

Item 48.2:

In response to an action to enforce the standards set forth in 40 CFR 63.9991 the owner or operator may assert an affirmative defense to a claim for civil penalties for exceedances of such standards that are caused by malfunction, as defined at 40 CFR 63.2. Appropriate penalties may be assessed, however, if he/she fails to meet his/her burden of proving all of the requirements in



the affirmative defense. The affirmative defense shall not be available for claims for injunctive relief.

To establish the affirmative defense in any action to enforce such a limit, the owner or operator must timely meet the notification requirements in 40 CFR 10001(b), and must prove by a preponderance of evidence that the requirements in 40 CFR 10001(a)(1) through (9) are met.

Condition 49: Compliance Certification
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.10021, Subpart UUUUU

Item 49.1:

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

Emission Unit: M-00001

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1. The owner or operator must conduct periodic performance tune-ups of each electric generating unit, as specified in paragraphs (e)(1) through (9) of 40 CFR 63.10021(e). Perform the first tune-up as part of the initial compliance demonstration. Notwithstanding this requirement, the owner or operator may delay the first burner inspection until the next scheduled unit outage provided the owner or operator meets the requirements of 40 § 63.10005. Subsequently, the owner or operator must perform an inspection of the burner at least once every 36 calendar months unless your electric generating unit employs neural network combustion optimization during normal operations in which case you must perform an inspection of the burner and combustion controls at least once every 48 calendar months.

2. As applicable, inspect the burner and combustion controls, and clean or replace any components of the burner or combustion controls as necessary upon initiation of the work practice program and at least once every required inspection period. Repair of a burner or combustion control component requiring special order parts may be scheduled as follows:

(i) Burner or combustion control component parts needing replacement that affect the ability to optimize NOX and CO must be installed within 3 calendar months after the burner inspection,



(ii) Burner or combustion control component parts that do not affect the ability to optimize NOX and CO may be installed on a schedule determined by the operator;

3. As applicable, inspect the flame pattern and make any adjustments to the burner or combustion controls necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available, or in accordance with best combustion engineering practice for that burner type;

4. As applicable, observe the damper operations as a function of mill loadings, pulverizer coal feeder loadings, or other pulverizer and coal mill performance parameters, making adjustments and effecting repair to dampers, controls, mills, pulverizers, cyclones, and sensors;

5. As applicable, evaluate windbox pressures and air proportions, making adjustments and effecting repair to dampers, actuators, controls, and sensors;

6. Inspect the system controlling the air-to-fuel ratio and ensure that it is correctly calibrated and functioning properly. Such inspection may include calibrating excess O₂ probes and/or sensors, adjusting overfire air systems, changing software parameters, and calibrating associated actuators and dampers to ensure that the systems are operated as designed. Any component out of calibration, in or near failure, or in a state that is likely to negate combustion optimization efforts prior to the next tune-up, should be corrected or repaired as necessary;

7. Optimize combustion to minimize generation of CO and NOX. This optimization should be consistent with the manufacturer's specifications, if available, or best combustion engineering practice for the applicable burner type. NOX optimization includes burners, overfire air controls, concentric firing system improvements, neural network or combustion efficiency software, control systems calibrations, adjusting combustion zone temperature profiles, and add-on controls such as SCR and SNCR; CO optimization includes burners, overfire air controls, concentric firing system improvements, neural network or combustion efficiency software, control systems calibrations, and adjusting combustion zone temperature profiles;

8. While operating at full load or the predominantly operated load, measure the concentration in the effluent stream of CO and NOX in ppm, by volume, and oxygen in volume percent, before and after the tune-up adjustments



are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). You may use portable CO, NOX and O2 monitors for this measurement. EGU's employing neural network optimization systems need only provide a single pre- and post-tune-up value rather than continual values before and after each optimization adjustment made by the system;

9. Maintain on-site and submit, if requested by the Administrator, an annual report containing the information in paragraphs (e)(1) through (e)(9) of this section including:

(i) The concentrations of CO and NOX in the effluent stream in ppm by volume, and oxygen in volume percent, measured before and after an adjustment of the EGU combustion systems;

(ii) A description of any corrective actions taken as a part of the combustion adjustment; and

(iii) The type(s) and amount(s) of fuel used over the 12 calendar months prior to an adjustment, but only if the unit was physically and legally capable of using more than one type of fuel during that period; and

10. Report the dates of the initial and subsequent tune-ups as follows:

(i) If the first required tune-up is performed as part of the initial compliance demonstration, report the date of the tune-up in hard copy (as specified in § 63.10030) and electronically (as specified in § 63.10031). Report the date of each subsequent tune-up electronically (as specified in § 63.10031).

(ii) If the first tune-up is not conducted as part of the initial compliance demonstration, but is postponed until the next unit outage, report the date of that tune-up and all subsequent tune-ups electronically, in accordance with § 63.10031.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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

Condition 50: Notifications

Effective between the dates of 01/29/2015 and 01/28/2020



Applicable Federal Requirement: 40CFR 63.10030, Subpart UUUUU

Item 50.1:

This Condition applies to:

Emission Unit: M00001

Item 50.2:

The owner or operator must submit all of the notifications in 40 CFR 63.7(b) and (c), 63.8 (e), (f)(4) and (6), and 63.9 (b) through (h) that apply to the electric generating unit by the dates specified.

As specified in 40 CFR 63.9(b)(2), if the owner or operator startups his/her affected source before April 16, 2012, he/she must submit an Initial Notification not later than 120 days after April 16, 2012.

As specified in 40 CFR 63.9(b)(4) and (b)(5), if the owner or operator startups his/her new or reconstructed affected source on or after April 16, 2012, he/she must submit an Initial Notification not later than 15 days after the actual date of startup of the affected source.

When the owner or operator is required to conduct a performance test, he/she must submit a Notification of Intent to conduct a performance test at least 30 days before the performance test is scheduled to begin.

When the owner or operator is required to conduct an initial compliance demonstration as specified in 40 CFR 63.10011(a), he/she must submit a Notification of Compliance Status according to 40 CFR 63.9(h)(2)(ii). The Notification of Compliance Status report must contain all the information specified in paragraphs (1) through (7), as applicable.

(1) A description of the affected source(s) including identification of which subcategory the source is in, the design capacity of the source, a description of the add-on controls used on the source, description of the fuel(s) burned, including whether the fuel(s) were determined by the owner or operator or EPA through a petition process to be a non-waste under 40 CFR 241.3, whether the fuel(s) were processed from discarded non-hazardous secondary materials within the meaning of 40 CFR 241.3, and justification for the selection of fuel(s) burned during the performance test.

(2) Summary of the results of all performance tests and fuel analyses and calculations conducted to demonstrate initial compliance including all established operating limits.

(3) Identification of whether the owner or operator plans to demonstrate compliance with each applicable emission limit through performance testing; fuel moisture analyses; performance testing with operating limits (e.g., use of PM CPMS); CEMS; or a sorbent trap monitoring system.

(4) Identification of whether the owner or operator plans to demonstrate compliance by emissions averaging.

(5) A signed certification that the owner or operator has met all applicable emission limits and



work practice standards.

(6) If the owner or operator had a deviation from any emission limit, work practice standard, or operating limit, he/she must also submit a brief description of the deviation, the duration of the deviation, emissions point identification, and the cause of the deviation in the Notification of Compliance Status report.

(7) In addition to the information required in 40 CFR 63.9(h)(2), his/her notification of compliance status must include the following:

(i) A summary of the results of the annual performance tests and documentation of any operating limits that were reestablished during this test, if applicable. If the owner or operator is conducting stack tests once every 3 years consistent with 40 CFR 63.10006(b), the date of the last three stack tests, a comparison of the emission level he/she achieved in the last three stack tests to the 50 percent emission limit threshold required in 40 CFR 63.10006(i), and a statement as to whether there have been any operational changes since the last stack test that could increase emissions.

(ii) Certifications of compliance, as applicable, and must be signed by a responsible official stating:

(A) "This EGU complies with the requirements in 40 CFR 63.10021(a) to demonstrate continuous compliance." And

(B) "No secondary materials that are solid waste were combusted in any affected unit."

Condition 51: Reporting Requirements

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement: 40CFR 63.10031, Subpart UUUUU

Item 51.1:

This Condition applies to:

Emission Unit: M00001

Item 51.2:

The owner or operator must with the following reporting requirements.

(a) The owner or operator must submit each applicable report in Table 8 to subpart UUUUU.

(b) Unless the Administrator has approved a different schedule for submission of reports under 40 CFR 63.10(a), the owner or operator must submit each report by the date in Table 8 to subpart UUUUU and according to the requirements in 40 CFR 63.10031(b)(1) through (5).

(c) The compliance report must contain the information required in 40 CFR 63.10031(c)(1) through (4).

(d) For each excess emissions occurring at an affected source where the owner or operator is using a CMS to comply with that emission limit or operating limit, he/she must include the



information required in 40 CFR 63.10(e)(3)(v) in the compliance report specified in 40 CFR 63.10031(c).

(e) Each affected source that has obtained a Title V operating permit pursuant to part 70 or part 71 must report all deviations as defined in subpart UUUUU in the semiannual monitoring report required by 40 CFR 70.6(a)(3)(iii)(A) or 40 CFR 71.6(a)(3)(iii)(A).

(f) The owner or operator shall comply with the electronic reporting requirements of 40 CFR 63.10031(f).

(g) If the owner or operator has a malfunction during the reporting period, the compliance report must include the number, duration, and a brief description for each type of malfunction which occurred during the reporting period and which caused or may have caused any applicable emission limitation to be exceeded.

Condition 52: Compliance Reports
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.10031(c), Subpart UUUUU

Item 52.1:

This Condition applies to:

Emission Unit: M00001

Item 52.2:

The compliance report must contain the information required in paragraphs (1) through (4).

(1) The information required by the summary report located in 40 CFR 63.10(e)(3)(vi).

(2) The total fuel use by each affected source subject to an emission limit, for each calendar month within the semiannual reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by EPA or the owner's or operator's basis for concluding that the fuel is not a waste, and the total fuel usage amount with units of measure.

(3) Indicate whether the owner or operator burned new types of fuel during the reporting period. If the owner or operator did burn new types of fuel he/she must include the date of the performance test where that fuel was in use.

(4) Include the date of the most recent tune-up for each unit subject to the requirement to conduct a performance tune-up according to 40 CFR 63.10021(e). Include the date of the most recent burner inspection if it was not done every 36 (or 48) months and was delayed until the next scheduled unit shutdown.

Condition 53: Recordkeeping
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.10032, Subpart UUUUU

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Emission Point: NEW01
Height (ft.): 375 Diameter (in.): 144
NYTMN (km.): 4718.008 NYTME (km.): 365.823 Building: FGD

Emission Point: NEW02
Height (ft.): 375 Diameter (in.): 144
NYTMN (km.): 4718.011 NYTME (km.): 365.829 Building: FGD

Emission Point: NEW03
Height (ft.): 375 Diameter (in.): 96
NYTMN (km.): 4718.017 NYTME (km.): 365.83 Building: FGD

Item 57.2:

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

Emission Unit: M-00002

Emission Point: 20001
Height (ft.): 65 Diameter (in.): 18
NYTMN (km.): 4717.889 NYTME (km.): 365.905

Condition 58: Process Definition By Emission Unit
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 58.1:

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

Emission Unit: M-00001
Process: P11 Source Classification Code: 1-01-002-02

Process Description:

EMISSION SOURCE B0001 FIRES BITUMINOUS COAL AS ITS PRIMARY FUEL. PARTICULATE MATTER EMISSIONS ARE CONTROLLED BY THE USE OF AN ELECTROSTATIC PRECIPITATOR AND/OR A WET SCRUBBER AND MEASURED (WHEN REQUESTED BY DEC) AT THE STACK CURRENTLY IN USE BY EMISSION SOURCE B0001. SULFUR DIOXIDE EMISSIONS ARE CONTROLLED BY A FLUE GAS DESULFURIZATION SYSTEM. NITROGEN OXIDES EMISSIONS ARE CONTROLLED THROUGH THE USE OF LNCFS-III, GOOD COMBUSTION PRACTICES AND A SELECTIVE CATALYTIC REDUCTION UNIT AS REQUIRED. NITROGEN OXIDES ARE LIMITED ON A SYSTEM-WIDE BASIS AS ESTABLISHED IN THE CAYUGA AND SOMERSET NOX RACT COMPLIANCE PLAN. SULFUR DIOXIDE AND NITROGEN OXIDES EMISSIONS ARE MEASURED BY THE CONTINUOUS EMISSION MONITORING SYSTEMS ON THE STACKS.

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Emission Source/Control: B0001 - Combustion
Design Capacity: 1,484 million Btu per hour

Emission Source/Control: ESP01 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FGD01 - Control
Control Type: WET SCRUBBER

Emission Source/Control: FGD02 - Control
Control Type: WET SCRUBBER

Emission Source/Control: SCR01 - Control
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 58.2:

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

Emission Unit: M-00001

Process: P12

Source Classification Code: 1-01-005-01

Process Description:

EMISSION SOURCE B0001 USES NO. 2 FUEL OIL OR DIESEL FUEL AS A STARTUP FUEL AND FOR FLAME STABILIZATION. IT IS USED ON AN AS-NEEDED BASIS. FLUE GAS OPACITY IS CONTROLLED AS NECESSARY THROUGH THE USE OF ESP FIELDS AND/OR A WET SCRUBBER DURING STARTUP. THERE ARE NO SPECIFIC FUEL OIL CONTROLS FOR SULFUR DIOXIDE OR NITROGEN OXIDES EMISSIONS. SULFUR DIOXIDE AND NITROGEN OXIDES EMISSIONS ARE MEASURED BY THE CONTINUOUS EMISSION MONITORING SYSTEMS ON THE STACKS.

Emission Source/Control: B0001 - Combustion
Design Capacity: 1,484 million Btu per hour

Item 58.3:

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

Emission Unit: M-00001

Process: P21

Source Classification Code: 1-01-002-02

Process Description:

EMISSION SOURCE B0002 FIRES BITUMINOUS COAL AS ITS PRIMARY FUEL. PARTICULATE MATTER EMISSIONS ARE CONTROLLED BY THE USE OF AN ELECTROSTATIC PRECIPITATOR AND/OR A WET SCRUBBER AND MEASURED (WHEN REQUESTED BY DEC) AT THE STACK CURRENTLY IN USE BY EMISSION SOURCE B0002. SULFUR DIOXIDE EMISSIONS ARE CONTROLLED BY A FLUE GAS DESULFURIZATION SYSTEM. NITROGEN OXIDES



EMISSIONS ARE CONTROLLED THROUGH THE USE OF LNCFS-III AND GOOD COMBUSTION PRACTICES. NITROGEN OXIDES ARE LIMITED ON A SYSTEM WIDE BASIS AS ESTABLISHED IN THE CAYUGA AND SOMERSET NOX RACT COMPLIANCE PLAN. SULFUR DIOXIDE AND NITROGEN OXIDES EMISSIONS ARE MEASURED BY THE CONTINUOUS EMISSION MONITORING SYSTEMS ON THE STACKS.

Emission Source/Control: B0002 - Combustion
Design Capacity: 1,517 million Btu per hour

Emission Source/Control: ESP02 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Emission Source/Control: FGD01 - Control
Control Type: WET SCRUBBER

Emission Source/Control: FGD02 - Control
Control Type: WET SCRUBBER

Emission Source/Control: MCS01 - Control
Control Type: CATALYTIC OXIDATION

Emission Source/Control: MCS02 - Control
Control Type: CATALYTIC OXIDATION

Item 58.4:

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

Emission Unit: M-00001

Process: P22

Source Classification Code: 1-01-005-01

Process Description:

EMISSION SOURCE B0002 USES NO. 2 FUEL OIL AS A STARTUP FUEL AND FOR FLAME STABILIZATION. IT IS USED ON AN AS-NEEDED BASIS. FLUE GAS OPACITY IS CONTROLLED AS NECESSARY THROUGH THE USE OF ESP FIELDS AND/OR A WET SCRUBBER DURING STARTUP. THERE ARE NO SPECIFIC FUEL OIL CONTROLS FOR SULFUR DIOXIDE OR NITROGEN OXIDES EMISSIONS. SULFUR DIOXIDE AND NITROGEN OXIDES EMISSIONS ARE MEASURED BY THE CONTINUOUS EMISSION MONITORING SYSTEMS ON THE STACKS.

Emission Source/Control: B0002 - Combustion
Design Capacity: 1,517 million Btu per hour

Item 58.5:

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



Emission Unit: M-00002
Process: AXB Source Classification Code: 1-03-005-02
Process Description:
Auxilliary boiler (Emission Source AUX1) firing No. 2
oil. The boiler shall not fire in excess of 2000 hours
per year.

Emission Source/Control: AUXB1 - Combustion
Design Capacity: 20.9 million Btu per hour

Item 58.6:

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

Emission Unit: M-00003
Process: CHS Source Classification Code: 3-05-010-11
Process Description:
Coal handling and storage. Car dumpers; bull dozers;
oil burners to defrost coal.

Emission Source/Control: CPILE - Process

Item 58.7:

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

Emission Unit: M-00004
Process: LH2 Source Classification Code: 3-05-101-05
Process Description:
Limestone conveying, storage and grinding subject to 40
CFR Part 60 Subpart OOO, Standards of Performance for
Nonmetallic Mineral Processing Plants.

Emission Source/Control: LCONV - Process

Emission Source/Control: LGRD1 - Process

Emission Source/Control: LGRD2 - Process

Emission Source/Control: LIMS1 - Process

Emission Source/Control: LIMS2 - Process

Item 58.8:

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

Emission Unit: M-00004
Process: LHS Source Classification Code: 3-05-103-05
Process Description: Limstone storage pile

Emission Source/Control: LPILE - Process
Design Capacity: 52,000 tons

Condition 59: Compliance Certification



Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 63.7515(h), Subpart DDDDD

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00002

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If your affected boiler is in the unit designed to burn light liquid subcategory and you combust ultra low sulfur liquid fuel, you do not need to conduct further performance tests if the pollutants measured during the initial compliance performance tests meet the emission limits in Tables 1 or 2 of this subpart providing you demonstrate ongoing compliance with the emissions limits by monitoring and recording the type of fuel combusted on a monthly basis. If you intend to use a fuel other than ultra low sulfur liquid fuel, natural gas, refinery gas, or other gas 1 fuel, you must conduct new performance tests within 60 days of burning the new fuel type.

On an annual basis, the owner or operator shall state whether the boiler complies with this requirement.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2016.

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

Condition 60: Compliance Certification

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable Federal Requirement:40CFR 60.672(e), NSPS Subpart OOO

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: M-00004

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:



Limestone conveyor transfer points, storage bins and wet ball mill grinders at Cayuga Station are subject to EPA's Standards of Performance for Nonmetallic Mineral Processing Plants. These points of emissions are located indoors. Each building enclosing the affected equipment must comply with the following emission limits:

No owner or operator shall cause to be discharged into the atmosphere from any building enclosing any transfer point on a conveyor belt or any other affected facility any visible fugitive emissions except emissions from a vent. Emissions from such building vent shall not exhibit greater than 7% opacity.

Compliance with the opacity limit in paragraph (2) shall be determined in accordance with a DEC-approved protocol upon written notice from the DEC. Fugitive opacity emissions shall be conducted in accordance with 40 CFR 60.675(d); vent opacity emissions shall be conducted in accordance with 40 CFR 60.675(c)(3).

On a semi-annual basis, the owner or operator shall observe emissions from the building vent and also from all other openings in the buildings (such as windows and doors). If any visible emissions are detected, the owner or operator shall contact the DEC by telephone or via electronic mail within two business days of such occurrence.

Monitoring Frequency: SEMI-ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2015.

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



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

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

Item A: 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 61: Contaminant List
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:ECL 19-0301

Item 61.1:
Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

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



CAS No: 007439-97-6
Name: MERCURY

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

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

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

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

CAS No: 0NY507-00-0
Name: 40 CFR 63 SUBPART DDDDD TOTAL SELECTED METALS

**Condition 62: Malfunctions and start-up/shutdown activities
Effective between the dates of 01/29/2015 and 01/28/2020**

Applicable State Requirement:6 NYCRR 201-1.4

Item 62.1:

(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 63: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 225-1.2 (g)

Item 63.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 63.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 64: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 225-1.2 (h)



Item 64.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 64.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installations that fire distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the Department, and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 65: Annual Mercury Emission Limit
Effective between the dates of 01/29/2015 and 01/28/2020**

Applicable State Requirement:6 NYCRR 246.5

Item 65.1:

Annual Mercury Emission rate, 2010-2014

1. For the period commencing January 1, 2010 until December 31, 2014, the owner or operator of this Mercury Reduction Program facility shall not cause or allow sum of all emissions of mercury from all MRP Units to exceed 73.0 pounds of mercury in any 12 month rolling period.

2. The owners and operators of this MRP facility shall comply with the monitoring, reporting and record keeping requirements of 6 NYCRR 246.7 through 246.13.



3. Compliance shall be determined using the procedures in 6 NYCRR 246.7-246.13.
4. On a calendar quarterly basis, the owner or operator shall submit to the DEC and the EPA a report of mercury emissions. Such report shall be submitted electronically in a format prescribed by the DEC and the EPA.
5. Each quarterly report shall include the following statements: "The monitoring data submitted were recorded in accordance with the applicable requirements of 6 NYCRR 246.7 through 246.13 and 40 CFR Part 75, including the quality assurance procedures and specifications; and "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 (a flue gas desulfurization system, a selective catalytic reduction system, or a compact hybrid particulate collector system). "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 "With regard to a flue gas desulfurization system or a selective catalytic reduction system, the quality-assured SO₂ emission data (recorded in accordance with 40 CFR Part 75) document that the flue gas desulfurization system was operating properly, or the quality-assured NO_x emission data recorded in accordance with 40 CFR Part 75 document that the selective catalytic reduction system was operating properly," and "The substituted data values do not systematically underestimate mercury emissions."

The first report is due April 30, 2009 for the period January 1, 2009 to March 31, 2009.

Condition 66: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement: 6 NYCRR 246.5 (b)

Item 66.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 66.2:

Compliance Demonstration shall include the following monitoring:

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

The facility-wide emission limit below is from Table 1 of 6NYCRR Part 246.5(a) and represents the allowable mercury emissions for each Mercury Reduction Program (MRP) facility for the control periods in 2010 through 2014.

The sum of mass mercury emissions (in pounds) from each applicable existing MRP unit at a MRP facility identified in Table 1 shall not exceed the facility-wide mercury emission limitation (in pounds per year) set forth in Table 1.

Upper Permit Limit: 73.0 pounds

New York State Department of Environmental Conservation

Permit ID: 7-5032-00019/00016

Facility DEC ID: 7503200019



Monitoring Frequency: CONTINUOUS
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 67: Mercury Emission Limit 2015
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement: 6 NYCRR 246.6

Item 67.1:

1. For the period commencing January 1, 2015 and thereafter, the owner or operator of this Mercury Reduction Program facility shall not cause or allow emissions of mercury from any MRP facility to exceed 0.6 pounds per trillion Btu in any 30 day rolling period (rolled daily).
2. The owners and operators of this MRP facility shall comply with the monitoring, reporting and record keeping requirements of 6 NYCRR 246.7 through 246.13.
3. Compliance shall be determined using the procedures in 6 NYCRR 246.7-246.13.
4. If compliance is demonstrated on a facility-wide basis, compliance shall be based on a BTU-weighted average subject to a plan approved by the DEC.
5. On a calendar quarterly basis, the owner or operator shall submit to the DEC and the EPA a report of mercury emissions. Such report shall be submitted electronically in a format prescribed by the DEC and the EPA.
6. Each quarterly report shall include the following statements: "The monitoring data submitted were recorded in accordance with the applicable requirements of 6 NYCRR 246.7 through 246.13 and 40 CFR Part 75, including the quality assurance procedures and specifications; and
"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 (a flue gas desulfurization system, a selective catalytic reduction system, or a compact hybrid particulate collector system).
"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
"With regard to a flue gas desulfurization system or a selective catalytic reduction system, the quality-assured SO₂ emission data (recorded in accordance with 40 CFR Part 75) document that the flue gas desulfurization system was operating properly, or the quality-assured NO_x emission data recorded in accordance with 40 CFR Part 75 document that the selective catalytic reduction system was operating properly," and
"The substituted data values do not systematically underestimate mercury emissions."

The first report is due April 30, 2015 for the period January 1, 2015 to March 31, 2015.

Condition 68: Monitoring and Reporting
Effective between the dates of 01/29/2015 and 01/28/2020



Item 70.1:

Whenever the owner or operator makes a replacement, modification, or change in any certified continuous emission 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 continuous emission 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 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.

Condition 71: Recertification Procedures for Sorbent Trap Monitoring System

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 246.8 (c) (2)

Item 71.1:

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 a 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 72: Missing Data Procedures

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 246.9

Item 72.1:

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 missing data procedures of 40 CFR Part 75, Subpart D.

Condition 73: Compliance Demonstration

Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 246.11 (a)



Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 75.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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 76: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement: 6 NYCRR 246.11 (d)

Item 76.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 76.2:

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 an electronic quarterly report in a format prescribed by the department and the Administrator, for each calendar quarter beginning with January 1, 2009 through March 31, 2009.

(2) Submit each quarterly report to the department and 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 75.84(f).



(3) For MRP units that are also subject to an Acid Rain emissions limitation or the Clean Air Interstate Rule (CAIR) NOx Annual Trading Program, CAIR SO2 Trading Program, or CAIR NOx Ozone Season Trading Program, 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.

Monitoring Frequency: CONTINUOUS
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2015.
Subsequent reports are due every 3 calendar month(s).

Condition 77: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement: 6 NYCRR 246.11 (e)

Item 77.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):
CAS No: 007439-97-6 MERCURY

Item 77.2:

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 and the Administrator, 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) 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



1. The date, time and magnitude of the excess opacity;
2. The fuel being combusted, the generator load and the ESP fields that were operating;
3. A statement clearly describing whether the excess opacity was unavoidable.

At the discretion of the DEC, periods of excess opacity reported above may be excused from enforcement action if the DEC determines the violations are unavoidable..

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 79: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 246.8 (c) (3)

Item 79.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: M-00001

Regulated Contaminant(s):

CAS No: 007439-97-6 MERCURY

Item 79.2:

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, the EPA Region 2 Regional Office, and the Administrator 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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 80: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement: 6 NYCRR 227-2.5 (c)

Item 80.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: M-00001

Process: P11

Emission Source: B0001

Item 80.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1. No later than 90 days after the effective date of this permit, the owner or operator shall submit to the DEC a report on the feasibility of low load operation of the SCR (58 MW gross and above).
2. The report required in Item 1 shall include correspondence from at least three catalyst vendors, including the supplier of the catalyst currently in use. The vendors shall report specifically on whether they can



supply catalysts for operation at temperatures lower than 608 F, and whether the current catalyst can be operated at temperatures lower than 608 F. The report shall include the cost of replacing the catalyst, minus the market value of the current catalyst. Such costs shall be supported by vendor correspondence. The report shall estimate the NOx reductions that would have been achieved based on the prior two years of operation.

3. If the report required in Item 2 recommends the use of a different catalyst, then no later than 270 days after the effective date of this permit, provided the replacement is cost-effective as determined by the DEC, the owner or operator shall submit to the DEC a program to replace the existing catalyst with the recommended catalyst.

4. If the report required in Item 2 recommends the use of the same catalyst at a lower operating temperature, then the owner or operator shall operate at that recommended temperature. If the owner or operator subsequently demonstrates that operation at a lower temperature is problematic, the owner or operator is not required to operate at the lower temperature (less than 608 F).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 81: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 227-2.5 (c)

Item 81.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: M-00001

Process: P11

Emission Source: B0001

Regulated Contaminant(s):

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

Item 81.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition is applicable on and after July 1, 2014.



1. The owner or operator shall comply with the following NOx limits for Boiler 1:
 - i. At loads equal to and greater than 58 MW (gross) but less than or equal to 70 MW (gross), provided that flue gas temperature at the outlet of the SCR temperature does not exceed 608 degrees F, emissions shall not exceed 0.42 pounds NOx per million Btu.
 - ii. At operating loads greater than 70 MW, and whenever the flue gas temperature at the outlet of the SCR temperature exceeds 608 degrees F, emissions shall not exceed 0.12 pounds per million Btu.
2. Compliance shall be determined using continuous emission monitors meeting the requirements of 40 CFR Part 75. Data shall not be bias-adjusted. Data shall not be substituted during periods of missing data.
3. During the period May 1 to September 30, the averaging period shall be 24 hours, block average; otherwise the averaging period shall be 30 days. Compliance shall be based on Btu-weighted averages. The owner or operator shall determine the 24-hour daily heat input-weighted average NOx emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 AM to 12:00 AM the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one-hour period starting with the period 12:00 AM to 1:00 AM and continuing through until the last period 11:00 PM to 12:00 AM; or, starting with the period 12:00 PM to 1:00 PM and continuing through the last period 11:00 AM to 12:00 PM. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NOx emission rate.
4. On a calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. The owner or operator must tabulate and summarize applicable emissions, monitoring, and operating parameter measurements recorded during the preceding three months (including but not limited to type and amount of fuel burned on a daily basis, heat content of the fuel, total heating value of the fuel consumed on a daily basis, the actual NOx emission rate, the allowable NOx emission rate, and the summation of the emission sources included in a system averaging plan). These records must be submitted to the department within 30 days following the end of each calendar quarter in a format acceptable to the department and must include:



below.

1. The owner or operator shall install a Selective Catalytic Reduction (SCR) system on Boiler 2 and, beginning July 1, 2018 and thereafter, comply with the following NOx limits for Boiler 2:
 - i. At loads equal to and greater than 58 MW (gross) but less than or equal to 70 MW (gross), provided that flue gas temperature at the outlet of the SCR temperature does not exceed the minimum temperature recommended for operation of the SCR, emissions shall not exceed 0.42 pounds NOx per million Btu.
 - ii. At operating loads greater than 70 MW(gross), and whenever the flue gas temperature at the outlet of the SCR temperature exceeds the minimum temperature recommended for operation of the SCR, emissions shall not exceed 0.12 pounds per million Btu.
2. Boiler 2 shall cease operations.
3. Boiler 2 shall be repowered with natural gas. A permit application shall be submitted to the DEC no later than July 1, 2016.
4. If the owner or operator complies with Option 1, compliance shall be determined using continuous emission monitors meeting the requirements of 40 CFR Part 75. Data shall not be bias-adjusted. Data shall not be substituted during periods of missing data.
3. If the owner or operator complies with Option 1, during the period May 1 to September 30, the averaging period shall be 24 hours, block average; otherwise the averaging period shall be 30 days. Compliance shall be based on Btu-weighted averages. The owner or operator shall determine the 24-hour daily heat input-weighted average NOx emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 AM to 12:00 AM the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one-hour period starting with the period 12:00 AM to 1:00 AM and continuing through until the last period 11:00 PM to 12:00 AM; or, starting with the period 12:00 PM to 1:00 PM and continuing through the last period 11:00 AM to 12:00 PM. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NOx emission rate.
4. If the owner or operator complies with Option 1, on a



calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. The owner or operator must tabulate and summarize applicable emissions, monitoring, and operating parameter measurements recorded during the preceding three months (including but not limited to type and amount of fuel burned on a daily basis, heat content of the fuel, total heating value of the fuel consumed on a daily basis, the actual NO_x emission rate, the allowable NO_x emission rate, and the summation of the emission sources included in a system averaging plan). These records must be submitted to the department within 30 days following the end of each calendar quarter in a format acceptable to the department and must include:

(a) the average NO_x emission rates as specified under paragraph (3) of this subdivision. (With the exception of emission sources subject to paragraph (a)(4) of this Section, emission sources are to record and tabulate block hourly average emission rates, but do not need to included the block hourly average emission rates in the quarterly summaries);

(b) identification of the operating hours when NO_x emissions data are not included in the calculation of the average emission rate and the reasons for not including that data; and

(c) the results of accuracy assessments as required by 40 CFR part 75 and any additional data quality information required by the department.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.12 pounds per million Btus

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2015.

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

Condition 83: Compliance Demonstration
Effective between the dates of 01/29/2015 and 01/28/2020

Applicable State Requirement:6 NYCRR 227-2.5 (c)

Item 83.1:

The Compliance Demonstration activity will be performed for:



Emission Unit: M-00001
Process: P21

Emission Source: B0002

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

Item 83.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition is applicable on and after July 1, 2014 and shall expire on June 30, 2018.

1. The owner or operator shall comply with the following NOx limits for Boiler 2:
 - i. At loads equal to and greater than 58 MW (gross) but less than or equal to 85 MW (gross), emissions shall not exceed 0.42 pounds NOx per million Btu.
 - ii. At operating loads greater than 85 MW, emissions shall not exceed 0.32 pounds per million Btu.
2. Compliance shall be determined using continuous emission monitors meeting the requirements of 40 CFR Part 75. Data shall not be bias-adjusted. Data shall not be substituted during periods of missing data.
3. During the period May 1 to September 30, the averaging period shall be 24 hours, block average; otherwise the averaging period shall be 30 days. Compliance shall be based on Btu-weighted averages. The owner or operator shall determine the 24-hour daily heat input-weighted average NOx emission rate based on the heat input-weighted average of the block hourly arithmetic average emission rates during each 24-hour daily period from 12:00 AM to 12:00 AM the following day using CEMS data. The block hourly heat input-weighted average emission rate must be calculated for each one-hour period starting with the period 12:00 AM to 1:00 AM and continuing through until the last period 11:00 PM to 12:00 AM; or, starting with the period 12:00 PM to 1:00 PM and continuing through the last period 11:00 AM to 12:00 PM. The 30-day rolling heat input-weighted average must be the average of the 24-hour daily heat input-weighted NOx emission rate.
4. On a calendar quarter basis, the owner or operator shall submit to the DEC a report of excess emissions. The owner or operator must tabulate and summarize applicable emissions, monitoring, and operating parameter measurements recorded during the preceding three months



(including but not limited to type and amount of fuel burned on a daily basis, heat content of the fuel, total heating value of the fuel consumed on a daily basis, the actual NO_x emission rate, the allowable NO_x emission rate, and the summation of the emission sources included in a system averaging plan). These records must be submitted to the department within 30 days following the end of each calendar quarter in a format acceptable to the department and must include:

(a) the average NO_x emission rates as specified under paragraph (3) of this subdivision. (With the exception of emission sources subject to paragraph (a)(4) of this Section, emission sources are to record and tabulate block hourly average emission rates, but do not need to included the block hourly average emission rates in the quarterly summaries);

(b) identification of the operating hours when NO_x emissions data are not included in the calculation of the average emission rate and the reasons for not including that data; and

(c) the results of accuracy assessments as required by 40 CFR part 75 and any additional data quality information required by the department.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.32 pounds per million Btus

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2015.

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

