

Facility DEC ID: 4192200055

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility

Permit ID: 4-1922-00055/00005

Effective Date:

Expiration Date:

Permit Issued To: NEW ATHENS GENERATING COMPANY LLC

9300 US RTE 9W
PO BOX 349
ATHENS, NY 12015-0349

Contact: Frank J Schneider
8840 Stanford Blvd
Suite 3700
Columbia, MD 21045
(443) 542-5124

Facility: ATHENS GENERATING PLANT
9300 US RTE 9W
ATHENS, NY 12015

Contact: Steve Cole
9300 Route 9W
PO Box 349
Athens, NY 12015
(518) 945-3705

Description:

Application for renewal of Air Title V Facility Permit. The application also includes several proposed modifications to the current Title V Permit to incorporate regulatory updates, facility-requested changes and administrative corrections.

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: KATE KORNAK
NYSDEC - REGION 4
1130 N WESTCOTT RD
SCHENECTADY, NY 12306-2014

Authorized Signature: _____ Date: ____ / ____ / ____

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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.

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DEC GENERAL CONDITIONS

**** General Provisions ****

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

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

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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 4
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 4 Headquarters
Division of Environmental Permits
1130 North Westcott Rd.
Schenectady, NY 12306-2014
(518) 357-2069

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: NEW ATHENS GENERATING COMPANY LLC
9300 US RTE 9W
PO BOX 349
ATHENS, NY 12015-0349

Facility: ATHENS GENERATING PLANT
9300 US RTE 9W
ATHENS, NY 12015

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

Permit Effective Date:

Permit Expiration Date:

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- 72 83 40CFR 52.21, Subpart A: Compliance Certification
- 73 84 40CFR 60.334(b), NSPS Subpart GG: CEMS
- 73 85 40CFR 60.334(c), NSPS Subpart GG: Compliance Certification
- 74 86 40CFR 60.334(h)(3), NSPS Subpart GG: Compliance Certification
- 75 87 40CFR 60.334(j), NSPS Subpart GG: Compliance Certification
- 77 88 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
- 78 89 40CFR 72.9, Subpart A: Compliance Certification
- 78 90 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 79 91 40CFR 97.606, Subpart CCCCC: Compliance Certification
- 81 92 40CFR 97.1006, Subpart GGGGG: Compliance Certification
- Emission Unit Level**
- 82 93 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 83 94 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

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- 89 95 6 NYCRR 227-2.4 (e) (2): Compliance Certification
- 91 96 6 NYCRR 227-2.4 (e) (2): Compliance Certification

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- 92 97 6 NYCRR 231-2.5: Compliance Certification
- 93 98 6 NYCRR 231-2.5: Compliance Certification

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- 93 99 6 NYCRR 231-2.5: Compliance Certification
- 94 100 6 NYCRR 231-2.5: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

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- 97 101 ECL 19-0301: Contaminant List
- 98 102 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 99 103 6 NYCRR 211.1: Air pollution prohibited

Emission Unit Level

- 99 104 6 NYCRR 251.3 (b): Compliance Demonstration

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 2/DRAFT

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item K: Permit Exclusion - ECL 19-0305

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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 200.6****Item 1.1:**

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

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

**Condition 2: Fees
Effective for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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

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reports required by the permit.

Condition 5: Compliance Certification
Effective for entire length of Permit

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,

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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

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

**Condition 6: Compliance Certification
 Effective for entire length of Permit**

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;

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and

- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

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

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

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

Chief – Air Compliance Branch
USEPA Region 2 DECA/ACB
290 Broadway, 21st Floor
New York, NY 10007

The address for the RAPCE is as follows:

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

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance
625 Broadway

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Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 7.1:

The Compliance Certification activity will be performed for the Facility.

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Condition 8: Recordkeeping requirements
Effective for entire length of Permit

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 for entire length of Permit

Applicable Federal Requirement:6 NYCRR 215.2

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Item 9.1:

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

Item 9.2

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

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

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

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

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

**Condition 10: Maintenance of Equipment
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 200.7

Item 10.1:

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

**Condition 11: Recycling and Salvage
Effective for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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

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them available to representatives of the department upon request.

**Condition 14: Trivial Sources - Proof of Eligibility
Effective for entire length of Permit**

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 for entire length of Permit**

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 for entire length of Permit**

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.

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Condition 17: Required Emissions Tests
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 17.1:

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 18: Accidental release provisions.
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 68

Item 18.1:

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 19: Recycling and Emissions Reduction
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 82, Subpart F

Item 19.1:

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

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

**Condition 20: Emission Unit Definition
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 20.1:

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

Emission Unit: U-00001

Emission Unit Description:

Emission unit U00001 consists of a Westinghouse Model 501G combustion turbine (245 MW base load at ISO conditions) with heat recovery steam generator and steam turbine (115 MW base load). The turbine employs dry low NOx technology and normally operates on natural gas. Distillate oil operation is limited to 1080 hrs/year. Steam (or water injection) is used during oil firing to reduce NOx emissions. Total heat rating is 3100 mmBtu/hr. NOx emissions from the turbines are additionally controlled by selective catalytic reduction (SCR) with ammonium hydroxide injection.

Building(s): TB

Item 20.2:

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

Emission Unit: U-00002

Emission Unit Description:

Emission Unit U00002 consists of a Westinghouse model 501G combustion turbine (245 MW base load at ISO conditions) with heat recovery steam generator and steam turbine (115 MW base load). The turbine employs dry low NOx technology and normally operates on natural gas. Distillate oil operation is limited to 1080 hours/yr. Steam (or water) injection is used during oil firing to reduce NOx emissions. Total heat rating is 3100 mmBtu/hr. NOx emissions from the combustion turbines are additionally controlled by selective catalytic reduction (SCR) with ammonium hydroxide injection.

Building(s): TB

Item 20.3:

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

Emission Unit: U-00003

Emission Unit Description:

Emission Unit U00003 consists of a Westinghouse Model 501G combustion turbine (245MW base load at ISO

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conditions) with heat recovery steam generator and steam turbine (115MW base load). The turbine employs dry low NOx technology and normally operates on natural gas. Distillate oil operation is limited to 1080 hours/yr. Steam (or water) injection is used during oil firing to reduce NOx emissions. Total heat rating is 3100 mmBtu/hr. NOx emissions from the turbines are additionally controlled by selective catalytic reduction (SCR) with ammonium hydroxide injection.

Building(s): TB

Item 20.4:

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

Emission Unit: U-00005

Emission Unit Description:

Diesel fired emergency generator, Caterpillar type SR4B, with 3512B-LE engine, rated at 1500kW. Maximum fuel consumption of 112.7 gallons/hr, with 500 gallon double wall tank with rupture basin. Operation is limited to 500 hr/year.

Building(s): DEG

Item 20.5:

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

Emission Unit: U-00006

Emission Unit Description:

Diesel fired emergency fire pump, Detroit model JDFP-06WA, 6 cylinder, rated at 265hP, with maximum fuel consumption of 13.98 gallons/hr. Operation is limited to 500 hr/yr.

Building(s): WTB

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

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 21.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
Process: 1SD

Emission Unit: U-00002 Emission Point: 00002
Process: 2SD

Emission Unit: U-00003 Emission Point: 00003
Process: 3SD

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Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 21.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emission records will be maintained for NOx and CO during startup and shutdown (SU/SD) while firing fuel oil in order to establish SU/SD emission limits for the combustion turbines. Within one year of initial operation of the combustion turbines on fuel oil, the facility will submit proposed SU/SD NOx and CO emission limits to the Department for approval. Concurrently, the facility will conduct and submit the results of dispersion modeling demonstrating that operation of the combustion turbines on fuel oil will not result in an exceedance of the 1-hour NO2 NAAQS.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 22: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 22.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 22.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In lieu of the Realtime Accuracy Test Audit (RATA) frequency specified in Procedure 1 of 40 CFR 60, Appendix F, the facility may utilize the test timing requirements in 40 CFR Part 75, Appendix B for RATAs of the CO, NH3, NOx, and O2 CEMS. In addition, the prospective data validation procedures in 40 CFR Part 75, Appendix B, Section 2.1.5 may be used in lieu of the procedures in 40 CFR Part 60, Appendix F, Procedure 1, Sections 4.3.1 & 4.3.2 to determine the CEMS "Out of Control" period and data validation status in the event of a daily calibration

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check failure.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 23.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1SG

Emission Unit: U-00002

Process: 2SG

Emission Unit: U-00003

Process: 3SG

Regulated Contaminant(s):

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

Item 23.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Startup is defined as the time that is required to increase the combustion turbine load up to 75%. This time period is dependent on the initial temperature of the steam turbine high pressure (HP) section rotor. There will be three different startup periods based on that initial temperature: hot start, warm start, and cold start. In addition, a limited number of extended startup events are authorized each year for adjustment and tuning of the combustion turbine controls.

An extended startup is defined as a startup (from ignition to 75% load) of the combustion turbine that cannot be completed in the amount of time that would normally be allowed, based on the initial steam turbine HP rotor temperature, due to required adjustments or tuning of the combustion turbine and/or its combustion controls. The duration of an extended startup shall not exceed twelve

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hours per occurrence and the number of extended startups is limited to a total of eighteen per calendar year for the three turbines combined.

The facility shall record the date, time and duration of each extended startup event for each combustion turbine. A report consisting of the recorded information shall be submitted to the Department with the facility's required excess emissions report. All records shall be maintained and readily available for a minimum of five years.

Parameter Monitored: DURATION OF START UP

Upper Permit Limit: 12 hours

Monitoring Frequency: CONTINUOUS

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE AT ANY TIME

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 24: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 24.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1BD

Emission Unit: U-00002

Process: 2BD

Emission Unit: U-00003

Process: 3BD

Regulated Contaminant(s):

CAS No: 000050-00-0 FORMALDEHYDE

Item 24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Emissions shall be controlled by the use of efficient combustion techniques. The emission limit is set to ensure that the combined potential emissions from the three turbines is below the 10 tons/yr 40 CFR Part 63 applicability threshold. Compliance with this limit will be demonstrated during a stack test that will be performed

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within 12 months of the initial operation of the emission unit using distillate fuel oil. Emissions testing is not required if the emission unit does not operate using distillate fuel during this permit term.

Upper Permit Limit: 0.000244 pounds per million Btus
 Reference Test Method: RM-320
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 25: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 25.1:

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

Emission Unit: U-00001
 Process: 1BG

Emission Unit: U-00002
 Process: 2BG

Emission Unit: U-00003
 Process: 3BG

Regulated Contaminant(s):
 CAS No: 000050-00-0 FORMALDEHYDE

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Formaldehyde emissions shall be controlled by the use of efficient combustion techniques. The emission limit is set to ensure that the combined potential emissions from the three turbines is below the 10 tons/yr threshold for applicability for 40 CFR Part 63 National Emission Standards for Hazardous Air Pollutants (NESHAP) rules. Compliance with this limit was demonstrated during a stack test that was performed within 12 months of the facility startup.

Upper Permit Limit: 0.2 pounds per hour
 Reference Test Method: RM-320
 Monitoring Frequency: SINGLE OCCURRENCE

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Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 26: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 26.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1SG

Emission Unit: U-00002

Process: 2SG

Emission Unit: U-00003

Process: 3SG

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, maintain, calibrate, and operate a continuous emission monitor (CEM) for carbon monoxide (CO) and shall limit the concentration of carbon monoxide during periods of startup and shutdown to no more than 3000 ppm based on each 1-hour block average for the entire startup or shutdown period while firing natural gas.

Emissions in excess of this limit shall be reported through the facility's excess emissions report. All records shall be maintained by the facility for a minimum of five years.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 23 (high), 6E (low-med) or equivalent

Upper Permit Limit: 3000 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR 60 Appendix B and F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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Condition 27: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 27.1:

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

Emission Unit: U-00001
Process: 1SG

Emission Unit: U-00002
Process: 2SG

Emission Unit: U-00003
Process: 3SG

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

Item 27.2:

Compliance Certification shall include the following monitoring:

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

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for carbon monoxide (CO) and shall limit the emissions of CO during periods of startup and shutdown to no more than 7500 lb/hr based on each 1-hour block average for the entire startup or shutdown period while firing natural gas.

Emissions in excess of this limit shall be reported through the facility's excess emissions report. All records shall be maintained by the facility for a minimum of five years.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 23 (high), 6E (low-med) or equivalent

Upper Permit Limit: 7500 pounds per hour

Reference Test Method: 40 CFR 60 Appendix B and F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 28: Compliance Certification
Effective for entire length of Permit

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Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 28.1:

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

Emission Unit: U-00001
Process: 1SG

Emission Unit: U-00002
Process: 2SG

Emission Unit: U-00003
Process: 3SG

Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 28.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Shutdown is defined as the period of time from when the combustion turbine load decreases below the Minimum Emissions Compliance Load (MECL) until fuel combustion is stopped. The duration of a shutdown shall not exceed one hour.

The facility shall record the date and time of each shutdown event. A report consisting of the recorded information shall be submitted to the Department with the facility's required excess emissions report. All records shall be maintained and readily available for a minimum of five years.

Parameter Monitored: DURATION OF SHUTDOWN
Upper Permit Limit: 1 hours
Monitoring Frequency: CONTINUOUS
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 29: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

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Item 29.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1SG

Emission Unit: U-00002
Process: 2SG

Emission Unit: U-00003
Process: 3SG

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 29.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Startup is defined as the time that is required to increase the combustion turbine load up to 75%. This time period is dependent on the initial temperature of the steam turbine high pressure (HP) section rotor. There will be three different startup periods based on that initial temperature: hot start, warm start, and cold start. In addition, a limited number of startup events are authorized each year for adjustment and tuning of the combustion turbine controls.

A warm start is defined as a startup (from ignition to 75% load) of the combustion turbine with an initial steam turbine HP rotor temperature of greater than or equal to 300 degrees Fahrenheit, but less than or equal to 800F. The duration of a warm startup shall not exceed six hours.

The facility shall record the date and time of each startup event. A report consisting of the recorded information shall be submitted to the Department with the facility's required excess emissions report. All records shall be maintained and readily available for a minimum of five years.

Parameter Monitored: DURATION OF START UP

Upper Permit Limit: 6 hours

Reference Test Method: N/A

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -

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SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 30: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1SG

Emission Unit: U-00002

Process: 2SG

Emission Unit: U-00003

Process: 3SG

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

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

Item 30.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Startup is defined as the time that is required to increase the combustion turbine load up to 75%. This time period is dependent on the initial temperature of the steam turbine high pressure (HP) section rotor. There will be three different startup periods based on that initial temperature: hot start, warm start, and cold start. In addition, a limited number of extended startup events are authorized each year for adjustment and tuning of the combustion turbine controls.

A cold start is defined as a startup (from ignition to 75% load) of the combustion turbine with an initial steam turbine HP rotor temperature of less than 300 degrees Fahrenheit. The duration of a cold startup shall not exceed eight hours.

The facility shall record the date and time of each startup event. A report consisting of the recorded information shall be submitted to the Department with the

Permit ID: 4-1922-00055/00005

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facility's required excess emissions report. All records shall be maintained and readily available for a minimum of five years.

Parameter Monitored: DURATION OF START UP
 Upper Permit Limit: 8 hours
 Monitoring Frequency: CONTINUOUS
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 31: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 31.1:

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

Emission Unit: U-00001
 Process: 1SG

Emission Unit: U-00002
 Process: 2SG

Emission Unit: U-00003
 Process: 3SG

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:

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for nitrogen oxides (NOx) and shall limit the concentration of NOx during periods of startup and shutdown to no more than 75 ppm based on a 3 hour block average for the entire startup or shutdown period while firing natural gas.

Emissions in excess of this limit shall be reported through the facility's excess emissions report. All records shall be maintained by the facility for a minimum of five years.

Manufacturer Name/Model Number: Thermo Model 42i or equivalent

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Upper Permit Limit: 75 parts per million by volume (dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR 60 Appendix B and F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 32: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 32.1:

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

Emission Unit: U-00001
 Process: 1SG

Emission Unit: U-00002
 Process: 2SG

Emission Unit: U-00003
 Process: 3SG

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

Item 32.2:

Compliance Certification shall include the following monitoring:

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

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for nitrogen oxides (NO_x) and shall limit the concentration of NO_x during periods of startup and shutdown to no more than 350 lb/hr based on a 3 hour block average for the entire startup or shutdown period while firing natural gas.

Emissions in excess of this limit shall be reported through the facility's excess emissions report. All records shall be maintained by the facility for a minimum of five years.

Manufacturer Name/Model Number: Thermo Model 42i or equivalent
 Upper Permit Limit: 350 pounds per hour
 Reference Test Method: 40 CFR 60 Appendix B and F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

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

Condition 33: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 33.1:

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

Emission Unit: U-00001
 Process: 1SG

Emission Unit: U-00002
 Process: 2SG

Emission Unit: U-00003
 Process: 3SG

Regulated Contaminant(s):
 CAS No: 000630-08-0 CARBON MONOXIDE
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 33.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Startup is defined as the time that is required to increase the combustion turbine load up to 75%. This time period is dependent on the initial temperature of the steam turbine high pressure (HP) section rotor. There will be three different startup periods based on that initial temperature: hot start, warm start, and cold start. In addition, a limited number of extended startup events are authorized each year for adjustment and tuning of the combustion turbine controls.

A hot start is defined as a startup (from ignition to 75% load) of the combustion turbine with an initial steam turbine HP rotor temperature of greater than 800 degrees Fahrenheit. The duration of a hot startup shall not exceed three hours.

The facility shall record the date and time of each startup event. A report consisting of the recorded information shall be submitted to the Department with the facility's required excess emissions report. All records

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Facility DEC ID: 4192200055

shall be maintained and readily available for a minimum of five years.

Parameter Monitored: DURATION OF START UP
 Upper Permit Limit: 3 hours
 Reference Test Method: N/A
 Monitoring Frequency: CONTINUOUS
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
 SEE MONITORING DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 34: Progress Reports Due Semiannually
 Effective for entire length of Permit**

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

Item 34.1:

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 35: Operational Flexibility
 Effective for entire length of Permit**

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

Item 35.1:

A permit modification is not required for changes that are provided for in the permit. Such changes include approved alternate operating scenarios and changes that have been submitted and approved pursuant to an established operational flexibility protocol and the requirements of this section. Each such change cannot be a modification under any provision of Title I of the Clean Air Act or exceed, or cause the facility to exceed, an emissions cap or limitation in the permit. The facility owner or operator must incorporate all changes into any compliance certifications, record keeping, and/or reporting required by the permit.

**Condition 36: Visible Emissions Limited
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 211.2

Item 36.1:

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Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

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

Applicable Federal Requirement:6 NYCRR 225-1.2 (d)

Item 37.1:

The Compliance Certification activity will be performed for the Facility.

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

Note - Process sources and incinerators must comply with the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: FUEL 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: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement:6 NYCRR 227-2.4 (e) (2)

Item 38.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a combined-cycle combustion turbine with a maximum heat input rate of 10 mmBtu/hr or greater must submit a case-by-case RACT analysis upon the submission of either a new or renewal application for a title V permit.

This facility has determined that the current combustion turbine NOx emission controls (SCR and Dry Low NOx burners for natural gas and SCR and water injection for distillate fuel oil) and emission limits constitute BACT/LAER. Consequently, the NOx controls and emission limits contained in the permit also represent RACT.

For any combined cycle combustion turbine having a maximum heat input rate greater than 250 mmBtu/hr, NOx emissions must be measured with a CEMS. The owner/operator must calculate block hourly arithmetic average emission rates using data points generated by the CEMS and expressed in terms of ppm on a dry volume basis, corrected to 15% oxygen.

Manufacturer Name/Model Number: Thermo 42i or equivalent

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement:6 NYCRR 231-2.5

Item 39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
Process: 1BG

Emission Unit: U-00002 Emission Point: 00002
Process: 2BG

Emission Unit: U-00003 Emission Point: 00003
Process: 3BG

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

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

Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall limit emissions of VOC to less than 16.8 lb/hr. This limit is a discrete one hour average that applies while firing natural gas, and is based on the heat input corresponding to the higher heating value of the fuel. Compliance with this limit was demonstrated during a stack test that was performed within 12 months of the facility startup.

Upper Permit Limit: 16.8 pounds per hour

Reference Test Method: RM-18/25A with Methane/Ethane backout or other app

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Applicable Federal Requirement: 6 NYCRR 231-2.5

Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
 Process: 1BD

Emission Unit: U-00002 Emission Point: 00002
 Process: 2BD

Emission Unit: U-00003 Emission Point: 00003
 Process: 3BD

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

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall control the emissions of volatile organic compounds (VOC) to less than 39.2 pounds per hour as measured during a performance test once during the term of the permit. The limit is a discrete one hour average

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which applies while firing oil, and is based on the heat input corresponding to the higher heating value of the fuel. Compliance with this limit will be demonstrated during a stack test that will be performed within 12 months of the initial operation of the emission unit using distillate fuel oil. Emissions testing is not required if the emission unit does not operate using distillate fuel during this permit term.

Upper Permit Limit: 39.2 pounds per hour
 Reference Test Method: RM-25A with Methane/Ethane backout or approved met
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 41: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.5

Item 41.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

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

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Total VOC emissions from the three turbines shall not exceed 233.2 tons/yr on a 12-month rolling average basis.
 VOC emissions shall be calculated using the results of the most recent stack testing.

Upper Permit Limit: 233.2 tons per year
 Reference Test Method: RM-25 W/METHANE/ETHANE BACKOUT or other approved m
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

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

**Condition 42: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-2.5

Item 42.1:

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

Emission Unit: U-00001 Emission Point: 00001
Process: 1BG

Emission Unit: U-00002 Emission Point: 00002
Process: 2BG

Emission Unit: U-00003 Emission Point: 00003
Process: 3BG

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

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for volatile organic compounds (VOC) shall be no more than 4.0 ppmvd, corrected to 15% oxygen, when the turbines are operating and firing natural gas. This VOC limit is a discrete one hour average. Compliance with this limit was demonstrated during a stack test that was performed within 12 months of the facility startup.

Upper Permit Limit: 4.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: EPA Method 18/25A with Methane/Ethane backout or

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 43: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-2.5

Item 43.1:

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

Emission Unit: U-00001 Emission Point: 00001

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Process: 1BD

Emission Unit: U-00002

Emission Point: 00002

Process: 2BD

Emission Unit: U-00003

Emission Point: 00003

Process: 3BD

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for volatile organic compounds (VOC) shall be no more than 13.0 ppmvd, corrected to 15% oxygen, when the turbines are operating and firing distillate fuel oil. This VOC limit is a discrete one hour average. Compliance with this limit will be demonstrated during a stack test that will be performed within 12 months of the initial operation of the emission unit on distillate fuel oil. Emissions testing is not required if the emission unit does not operate using distillate fuel oil during this permit term.

Upper Permit Limit: 13.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: EPA Method 18/25A with Methane/Ethane backout or o

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 44: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.9 (b) (1)

Item 44.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

The facility previously obtained NOx emission credits totalling 560 tons per year.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 45: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.9 (b) (2)

Item 45.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility previously obtained VOC emission credits totalling 275 tons/year.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 46: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 46.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Monitoring Description:

The emission limit for sulfur dioxide of 1.1 lb/hr is a discrete one hour average at design operating conditions.

The unit will demonstrate compliance with a one time, initial compliance test. The unit will be maintained to manufacturer's operating specifications with an annual tune up.

Upper Permit Limit: 1.1 pounds per hour

Reference Test Method: EPA Ref. Method 6C/19

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 47: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 47.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00005

Regulated Contaminant(s):

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

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for PM-10 of 1.9 lb/hr is a discrete one hour average at design operating conditions. The unit will demonstrate compliance with a one time, initial compliance test. The unit will be maintained to manufacturer's operating specifications with an annual tune up.

Upper Permit Limit: 1.9 pounds per hour

Reference Test Method: EPA Ref. Method 201A/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Condition 48: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 48.1:

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

Emission Unit: U-00006

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

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for PM-10 of 0.5 lb/hr is a discrete one hour average at design operating conditions. The unit demonstrated compliance during an initial compliance test. The unit will be maintained according to the manufacturer's specifications with an annual tune-up.

Upper Permit Limit: 0.5 pounds per hour

Reference Test Method: EPA RM201A/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 49: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 49.1:

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

Emission Unit: U-00006

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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Monitoring Description:

The emission limit for particulate matter of 0.5 lb/hr is a discrete one hour average at design operating conditions. The unit demonstrated compliance during an initial compliance test. The unit will be maintained according to the manufacturer's specifications with an annual tune-up.

Upper Permit Limit: 0.5 pounds per hour
 Reference Test Method: EPA RM 201A/202
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

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

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 50.1:

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

Emission Unit: U-00005

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

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for carbon monoxide of 7.7 lb/hr is a discrete one hour average at design operating conditions. The unit will demonstrate compliance with a one time, initial compliance test. The unit will be maintained to manufacturer's operating specifications with an annual tune up.

Upper Permit Limit: 7.7 pounds per hour
 Reference Test Method: EPA RM 10
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Condition 51: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 51.1:

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

Emission Unit: U-00006

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

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This emission limit for sulfur dioxide of 0.3 lb/hr is a discrete one hour average at design operating conditions. The unit will demonstrate compliance with a one-time, initial compliance test. The unit will be maintained to manufacturer's operating specifications with an annual tune up.

Upper Permit Limit: 0.3 pounds per hour

Reference Test Method: Ref. Method 6C/19

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 52: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 52.1:

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

Emission Unit: U-00006

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

Item 52.2:

Compliance Certification shall include the following monitoring:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit is a discrete one hour average at design operating conditions. The unit demonstrated compliance during an initial compliance test. The unit will be maintained according to the manufacturer's specifications with an annual tune-up.

Upper Permit Limit: 4.1 pounds per hour

Reference Test Method: 10

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 53.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1BD

Emission Unit: U-00002

Process: 2BD

Emission Unit: U-00003

Process: 3BD

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Athens Generating will meet a sulfur dioxide limit of 148.2 lb/hr when firing fuel oil in a combustion turbine by meeting a fuel oil sulfur limit of 0.05% by weight or less. Compliance with the sulfur limit for fuel oil will be determined using one of the total sulfur sampling options and associated sampling frequency described in sections 2.2 of Appendix D to 40 CFR Part 75.

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Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: FUEL OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 148.2 pounds per hour
Reference Test Method: APPENDIX D
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 54: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 54.1:

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

Emission Unit: U-00001
Process: 1BG

Emission Unit: U-00001
Process: 1MG

Emission Unit: U-00002
Process: 2BG

Emission Unit: U-00002
Process: 2MG

Emission Unit: U-00003
Process: 3BG

Emission Unit: U-00003
Process: 3MG

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall control the emissions of nitrogen oxides (NOx) to less than 23.4 pounds per hour as measured in a continuous emissions monitor. The limit shall be

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based on a three-hour average and is based on the heat input corresponding to the higher heating value of the natural gas.

Manufacturer Name/Model Number: Thermo Model 42i or equivalent
 Upper Permit Limit: 23.4 pounds per hour
 Reference Test Method: RM-20/7E
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR BLOCK AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 55: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 55.1:

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

Emission Unit: U-00001
 Process: 1BG

Emission Unit: U-00002
 Process: 2BG

Emission Unit: U-00003
 Process: 3BG

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

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility shall limit the emissions of sulfur dioxide to 21.0 lb/hr by monitoring the sulfur content of the natural gas that is burned. This emission limit is a discrete one-hour average based on the continuous recording of natural gas usage, with heat input corresponding to the higher heating value of the fuel.

Based on analytical data collected for a one-year period by the facility, the natural gas meets the definition of pipeline natural gas with a sulfur content less than or equal to 0.5 grains/100 scf as defined in 40 CFR 72.2.

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As a result sulfur dioxide emissions will be calculated using the emission factor of 0.0006 lb/mmBtu, in accordance with 40 CFR 75, Appendix D, section 2.3.1.1. If the natural gas no longer meets the definition of pipeline natural gas, but meets the definition of "natural gas" in 40 CFR 72.2, sulfur dioxide emissions will be calculated in accordance with 40 CFR 75, Appendix D, Section 2.3.2.1 using either the total sulfur content from fuel sampling results or the maximum total sulfur content specified in a contract or tariff for the gas fuel supply to the combustion turbines.

The facility will either perform an annual sulfur content analysis or obtain such an analysis from the gas supplier.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: NATURAL GAS
 Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 21.0 pounds per hour
 Reference Test Method: 40 CFR Part 75, APPENDIX D
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 56: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 56.1:

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

Emission Unit: U-00005

Emission Unit: U-00006

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

NOx emissions from emission units U-00005 and U-00006 shall not exceed 20.6 tons/yr. The facility shall meet

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this limit by maintaining a log of the hours of operation of the engines and the reason for operation on-site. Each engine shall be equipped with an hour meter. Operational hours shall be calculated from the hour meter and recorded in a log. Hours of operation shall be summed with the previous eleven months to calculate a rolling 12-month total.

Work Practice Type: HOURS PER YEAR OPERATION
 Upper Permit Limit: 500 hours per year
 Monitoring Frequency: MONTHLY
 Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 57: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 57.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

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

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit emission limits apply at all loads and modes of operation between the Minimum Emissions Compliance Load (MECL) and 100% load. During periods of start-up, shutdown, maintenance, malfunction or emergency, the provisions of 6 NYCRR Part 201-1.4 and 1.5 apply.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 58: Compliance Certification
Effective for entire length of Permit

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 58.1:

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

Emission Unit: U-00001
Process: 1BD

Emission Unit: U-00001
Process: 1MD

Emission Unit: U-00002
Process: 2BD

Emission Unit: U-00002
Process: 2MD

Emission Unit: U-00003
Process: 3BD

Emission Unit: U-00003
Process: 3MD

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall control the emissions of sulfuric acid to less than 23.5 pounds per hour as determined during a performance test once during the term of the permit. The limit is a discrete one hour average which applies while firing fuel oil, and is based on the heat input corresponding to the higher heating value of the fuel. Compliance with this limit will be demonstrated during a stack test that will be performed within 12 months of the initial operation of the emission unit using distillate fuel oil. Emissions testing is not required if the emission unit does not operate using distillate fuel during the permit term.

Upper Permit Limit: 23.5 pounds per hour

Reference Test Method: RM-8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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Facility DEC ID: 4192200055

Condition 59: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 59.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1BG

Emission Unit: U-00001
Process: 1MG

Emission Unit: U-00002
Process: 2BG

Emission Unit: U-00002
Process: 2MG

Emission Unit: U-00003
Process: 3BG

Emission Unit: U-00003
Process: 3MG

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall control the emissions of sulfuric acid to less than 2.8 pounds per hour. The limit is a discrete one hour average which applies while firing natural gas, and is based on the heat input corresponding to the higher heating value of the fuel. Compliance with this limit was demonstrated by stack testing performed within 12 months of startup.

Upper Permit Limit: 2.8 pounds per hour

Reference Test Method: RM-8

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 60: Compliance Certification
Effective for entire length of Permit

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 60.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1BG

Emission Unit: U-00001
Process: 1MG

Emission Unit: U-00002
Process: 2BG

Emission Unit: U-00002
Process: 2MG

Emission Unit: U-00003
Process: 3BG

Emission Unit: U-00003
Process: 3MG

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

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall control the emissions of particulate matter (PM) to less than 34.1 pounds per hour as determined during a performance test once during the term of the permit. The limit is a discrete one hour average which applies while firing natural gas, and is based on the heat input corresponding to the higher heating value of the fuel.

Upper Permit Limit: 34.1 pounds per hour

Reference Test Method: RM 202, 201A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 61: Compliance Certification
Effective for entire length of Permit**

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 61.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Regulated Contaminant(s):

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

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Total NO_x emissions from emission units U-00001, U-00002, and U-00003 shall not exceed 424.2 tons/yr on a 12-month rolling total basis.

Manufacturer Name/Model Number: Thermo Model 42i or equivalent

Upper Permit Limit: 424.2 tons per year

Reference Test Method: RM-20/7E

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 62: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 62.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1BD

Emission Unit: U-00001

Process: 1MD

Emission Unit: U-00002

Process: 2BD

Emission Unit: U-00002

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Process: 2MD

Emission Unit: U-00003
Process: 3BD

Emission Unit: U-00003
Process: 3MD

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

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall control the emissions of nitrogen oxides (NO_x) to less than 101.9 pounds per hour as measured in a continuous emissions monitor. The limit shall be based on a three-hour average and is based on the heat input corresponding to the higher heating value of the distillate fuel oil.

Manufacturer Name/Model Number: Thermo Model 42i or equivalent

Upper Permit Limit: 101.9 pounds per hour

Reference Test Method: RM-20/7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 63: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 63.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1MD

Emission Unit: U-00002
Process: 2MD

Emission Unit: U-00003
Process: 3MD

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

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall control the emissions of carbon monoxide to less than 508.2 pounds per hour as measured in a continuous emissions monitor. The limit shall be based on a one-hour average and is based on the heat input corresponding to the higher heating value of the distillate oil.

This limit applies when the turbine is operating between the Minimum Emissions Compliance Load (MECL) and 75% load. The emission limit between 75% and 100% shall be determined by linear interpolation.

Manufacturer Name/Model Number: Siemens Ultramat 6E or equivalent

Upper Permit Limit: 508.2 pounds per hour

Reference Test Method: RM-10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 64: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 64.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1BD

Emission Unit: U-00002

Process: 2BD

Emission Unit: U-00003

Process: 3BD

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Monitoring Description:

The facility shall control the emissions of carbon monoxide to less than 351.8 pounds per hour as measured in a continuous emissions monitor. The limit shall be based on a one-hour average and is based on the heat input corresponding to the higher heating value of the fuel oil.

This limit applies when the turbine is firing at 100% load.

Manufacturer Name/Model Number: Siemens Ultramat 6E or equivalent

Upper Permit Limit: 351.8 pounds per hour

Reference Test Method: RM-10

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 65: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 65.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Process: 1MG

Emission Unit: U-00002

Process: 2MG

Emission Unit: U-00003

Process: 3MG

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall control the emissions of carbon monoxide to less than 170.2 pounds per hour as measured in a continuous emissions monitor. The limit shall be based on a one-hour average and is based on the heat input corresponding to the higher heating value of the natural gas.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

This limit applies when the turbine is operating between the Minimum Emissions Compliance Load (MECL) and 75% load while firing natural gas. If the turbine is operating between 75 and 100% load, the CO emission limit shall be determined by linear interpolation.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 6E NON-DISPERSIVE INFRARED or equivalent
 Upper Permit Limit: 170.2 pounds per hour
 Reference Test Method: RM-10
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 66: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 66.1:

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

Emission Unit: U-00001
 Process: 1BG

Emission Unit: U-00002
 Process: 2BG

Emission Unit: U-00003
 Process: 3BG

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

Item 66.2:

Compliance Certification shall include the following monitoring:

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

The facility shall control the emissions of carbon monoxide to less than 105.0 pounds per hour as measured in a continuous emissions monitor. The limit shall be based on a one-hour average and is based on the heat input corresponding to the higher heating value of the natural gas.

This limit applies when the turbine is firing at 100% load.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Manufacturer Name/Model Number: Siemens Ultramat 6E or equivalent
 Upper Permit Limit: 105.0 pounds per hour
 Reference Test Method: RM-10
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 67: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 67.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Item 67.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All three turbines shall be allowed to operate simultaneously provided no more than two combustion turbines may be in startup at the same time. Each turbine shall operate at or above the Minimum Emissions Compliance Load (MECL) except during startup, shutdown, and protective load shed conditions.

Protective load shed conditions occur when an equipment malfunction or upset conditions require a temporary manual or automatic reduction in combustion turbine load below the MECL. The NO_x and CO emission limits in this permit for startup and shutdown shall apply during protective load shed conditions which shall not exceed three hours per occurrence.

The facility shall maintain records of the date, time, duration and reason (e.g. startup, shutdown, protective load shed) for all combustion turbine operations below the MECL.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

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

Condition 68: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 68.1:

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

Emission Unit: U-00001
 Process: 1BD

Emission Unit: U-00001
 Process: 1MD

Emission Unit: U-00002
 Process: 2BD

Emission Unit: U-00002
 Process: 2MD

Emission Unit: U-00003
 Process: 3BD

Emission Unit: U-00003
 Process: 3MD

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

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall control the emissions of particulate matter (PM) to less than 154.0 pounds per hour as determined during a performance test once during the term of the permit. The limit is a discrete one hour average which applies while firing fuel oil, and is based on the heat input corresponding to the higher heating value of the fuel. Compliance with this limit will be demonstrated during a stack test that will be performed within 12 months of the initial operation of the emission unit using distillate fuel oil. Emissions testing is not required if the emission unit does not operate using distillate fuel oil during the permit term.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Upper Permit Limit: 154.0 pounds per hour
 Reference Test Method: RM-201A,202
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 69: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 69.1:

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

Emission Unit: U-00001
 Process: 1BD

Emission Unit: U-00001
 Process: 1BG

Emission Unit: U-00002
 Process: 2BD

Emission Unit: U-00002
 Process: 2BG

Emission Unit: U-00003
 Process: 3BD

Emission Unit: U-00003
 Process: 3BG

Regulated Contaminant(s):
 CAS No: 007664-41-7 AMMONIA

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall control the emissions of ammonia to less than 42.3 pounds per hour as measured in a continuous emissions monitor. The limit shall be based on a one-hour average and is based on the heat input corresponding to the higher heating value of the natural gas or fuel oil.

Manufacturer Name/Model Number: Thermo 42i or equivalent

Upper Permit Limit: 42.3 pounds per hour

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Reference Test Method: CTM-027
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 70: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 70.1:

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

Emission Unit: U-00001
Process: 1BD

Emission Unit: U-00002
Process: 2BD

Emission Unit: U-00003
Process: 3BD

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

Item 70.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This emission limit for sulfur dioxide (SO₂) of 0.05 lb/mmBtu is a discrete one hour average based on the continuous recording of distillate fuel oil usage, with heat input corresponding to the higher heating value of the fuel. Compliance will be determined using supplier fuel oil sulfur content certifications with each delivery or one of the other applicable total sulfur and heating value sampling options and associated sampling frequencies described in Section 2.2 of Appendix D to 40 CFR Part 75. Fuel oil operation for each turbine is limited to 1080 hours/year.

Upper Permit Limit: 0.05 pounds per million Btus
Reference Test Method: Method 8
Monitoring Frequency: PER DELIVERY
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

**Condition 71: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 71.1:

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

Emission Unit: U-00001 Emission Point: 00001
Process: 1BG

Emission Unit: U-00002 Emission Point: 00002
Process: 2BG

Emission Unit: U-00003 Emission Point: 00003
Process: 3BG

Regulated Contaminant(s):
CAS No: 000050-00-0 FORMALDEHYDE

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This formaldehyde emission limit of 0.000064 lb/mmBtu is a discrete one hour average based on the heat input corresponding to the higher heating value of the fuel. Compliance was determined with a one time stack test that was performed within 12 months of startup.

Upper Permit Limit: 0.000064 pounds per million Btus

Reference Test Method: EPA Method 11

Monitoring Frequency: SINGLE OCCURRENCE

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 72.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Emission Unit: U-00003

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

Item 72.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Alternate fuel use of distillate oil is limited to 1080
hours per year total for each turbine, calculated on a
daily rolling basis.

Parameter Monitored: FUEL OIL

Upper Permit Limit: 1080 hours per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL TOTAL ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 73: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 73.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1BD

Emission Unit: U-00002
Process: 2BD

Emission Unit: U-00003
Process: 3BD

Regulated Contaminant(s):
CAS No: 007664-93-9 SULFURIC ACID

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for sulfuric acid shall be no more
than 0.008 lb/mmBtu when the turbines are operating and
firing distillate fuel oil. This sulfuric acid limit is

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a discrete one hour average. Compliance with this limit will be demonstrated during a stack test that will be performed within 12 months of the facility's initial operation using distillate fuel oil.

Upper Permit Limit: 0.008 pounds per million Btus
 Reference Test Method: EPA Method 8
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

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

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 74.1:

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

Emission Unit: U-00001 Emission Point: 00001
 Process: 1BG

Emission Unit: U-00002 Emission Point: 00002
 Process: 2BG

Emission Unit: U-00003 Emission Point: 00003
 Process: 3BG

Regulated Contaminant(s):
 CAS No: 007664-93-9 SULFURIC ACID

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for sulfuric acid shall be no more than 0.0009 lb/mmBtu when the turbines are operating and firing natural gas. This sulfuric acid limit is a discrete one hour average. Compliance with this limit was demonstrated by stack testing performed within 12 months of startup.

Upper Permit Limit: 0.0009 pounds per million Btus
 Reference Test Method: EPA Method 8
 Monitoring Frequency: SINGLE OCCURRENCE
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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Condition 75: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 75.1:

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

Emission Unit: U-00001
Process: 1BD

Emission Unit: U-00001
Process: 1MD

Emission Unit: U-00002
Process: 2BD

Emission Unit: U-00002
Process: 2MD

Emission Unit: U-00003
Process: 3BD

Emission Unit: U-00003
Process: 3MD

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

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for total particulate matter (PM) and PM-10 shall be no more than 0.075 lb/mmBtu when the turbines are operating and firing distillate fuel oil. This limit is a discrete one hour average. Compliance with this limit will be demonstrated during a stack test that will be performed within 12 months of the initial operation of the emission unit using distillate fuel oil. Emissions testing is not required if the emission unit does not operate using distillate fuel during the permit term.

Upper Permit Limit: 0.075 pounds per million Btus
Reference Test Method: 40 CFR Part 60, Appendix A Method 5/202
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 76.1:

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

Emission Unit: U-00001	Emission Point: 00001
Process: 1BG	
Emission Unit: U-00002	Emission Point: 00002
Process: 2BG	
Emission Unit: U-00003	Emission Point: 00003
Process: 3BG	

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

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for total particulate matter (PM) and PM-10 shall be no more than 0.011 lb/mmBtu when the turbines are operating and firing natural gas. This limit is a discrete one hour average based on the higher heating value of the natural gas.

Upper Permit Limit: 0.011 pounds per million Btus
 Reference Test Method: 40 CFR Part 60, Appendix A Method 5
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 77: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 77.1:

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Facility DEC ID: 4192200055

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

Emission Unit: U-00001 Emission Point: 00001
Process: 1BD

Emission Unit: U-00001 Emission Point: 00001
Process: 1BG

Emission Unit: U-00002 Emission Point: 00002
Process: 2BD

Emission Unit: U-00002 Emission Point: 00002
Process: 2BG

Emission Unit: U-00003 Emission Point: 00003
Process: 3BD

Emission Unit: U-00003 Emission Point: 00003
Process: 3BG

Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 77.2:

Compliance Certification shall include the following monitoring:

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

The emission limit for ammonia shall be no more than 10 ppmvd, corrected to 15% oxygen when the turbines are operating normally and firing either natural gas or distillate fuel oil. This ammonia limit is a discrete one hour average. Compliance with this limit shall be demonstrated through the use of a CEMS at the gas turbine stack.

Manufacturer Name/Model Number: Thermo 42i or equivalent

Upper Permit Limit: 10.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 78: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Item 78.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
 Process: 1MD

Emission Unit: U-00002 Emission Point: 00002
 Process: 2MD

Emission Unit: U-00003 Emission Point: 00003
 Process: 3MD

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

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The emission limit for carbon monoxide (CO) shall be no more than 92 ppmvd, corrected to 15% oxygen when the turbines are operating between the Minimum Emissions Compliance Load (MECL) and 75% load while firing distillate fuel oil. Compliance with this limit shall be demonstrated through the use of a CEMS at the gas turbine stack. The CO emission limit for turbine loads between 75% and 100% shall be determined by linear interpolation.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 23 (high), 6E (low-med) or equivalent

Upper Permit Limit: 92.0 parts per million by volume
 (dry, corrected to 15% O2)

Reference Test Method: 40 CFR Part 60, Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 79: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 79.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
 Process: 1MG

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Emission Unit: U-00002
Process: 2MG

Emission Point: 00002

Emission Unit: U-00003
Process: 3MG

Emission Point: 00003

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

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The emission limit for carbon monoxide (CO) shall be no more than 30 ppmvd, corrected to 15% oxygen when the turbines are operating between the minimum emissions compliance load (MECL) and 75% load while firing natural gas. This CO limit is a discrete one hour average. Compliance with this limit shall be demonstrated through the use of a CEMS at the gas turbine stack. The CO emission limit for turbine loads between 75% and 100% shall be determined by linear interpolation.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 23 (high), 6E (low-med) or equivalent

Upper Permit Limit: 30.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: 40 CFR Part 60, Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 80: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 80.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1BD

Emission Point: 00001

Emission Unit: U-00002
Process: 2BD

Emission Point: 00002

Emission Unit: U-00003

Emission Point: 00003

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Process: 3BD

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This carbon monoxide (CO) emission limit of 50 ppmv corrected to 15% oxygen is a discrete one hour average based on the higher heating value of the distillate fuel oil. This limit applies during normal operation at 100% load when the turbine is firing fuel oil. Compliance is continuously demonstrated using a CEMS at the gas turbine exhaust stack.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 23 (high), 6E (low-medium)NON-DISPERSIVE INFRARED

Upper Permit Limit: 50.0 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40 CFR Part 60, Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 81.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
Process: 1BG

Emission Unit: U-00002 Emission Point: 00002
Process: 2BG

Emission Unit: U-00003 Emission Point: 00003
Process: 3BG

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 81.2:

Compliance Certification shall include the following monitoring:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This carbon monoxide (CO) emission limit of 15 ppmv corrected to 15% oxygen is a discrete one hour average. This limit applies during normal operation at 100% load when the turbine is firing natural gas. Compliance is continuously demonstrated using a CEMS at the gas turbine exhaust stack.

Manufacturer Name/Model Number: SIEMENS ULTRAMAT 23 (high), 6E (low-med) or equivalent

Upper Permit Limit: 15.0 parts per million by volume (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 82.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: 00001
Process: 1BD

Emission Unit: U-00001 Emission Point: 00001
Process: 1MD

Emission Unit: U-00002 Emission Point: 00002
Process: 2BD

Emission Unit: U-00002 Emission Point: 00002
Process: 2MD

Emission Unit: U-00003 Emission Point: 00003
Process: 3BD

Emission Unit: U-00003 Emission Point: 00003
Process: 3MD

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

Item 82.2:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This NOx emission limit of 9.0 ppmv corrected to 15% oxygen is a three hour block average. This limit applies during normal operation while the turbines are firing fuel oil. Compliance will be continuously demonstrated using a CEMS at the gas turbine exhaust stack.

Manufacturer Name/Model Number: Thermo 42i or equivalent

Upper Permit Limit: 9.0 parts per million by volume

(dry, corrected to 15% O2)

Reference Test Method: 40 CFR Part 60, Appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 83: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 83.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: 00001
Process: 1BG	

Emission Unit: U-00001	Emission Point: 00001
Process: 1MG	

Emission Unit: U-00002	Emission Point: 00002
Process: 2BG	

Emission Unit: U-00002	Emission Point: 00002
Process: 2MG	

Emission Unit: U-00003	Emission Point: 00003
Process: 3BG	

Emission Unit: U-00003	Emission Point: 00003
Process: 3MG	

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

Item 83.2:

Compliance Certification shall include the following monitoring:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This NOx emission limit of 2.0 ppmv corrected to 15% oxygen is a three hour block average. This limit applies during normal operation while the turbines are firing natural gas. Compliance will be continuously demonstrated using a CEMS at the gas turbine exhaust stack.

Manufacturer Name/Model Number: Thermo Model 42i or equivalent

Upper Permit Limit: 2.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60 Appendix B and F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 84: CEMS
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.334(b), NSPS Subpart GG

Item 84.1:

This Condition applies to:

Emission Unit: U00001

Emission Unit: U00002

Emission Unit: U00003

Item 84.2:

The owner or operator of any stationary gas turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which uses water or steam injection to control NOX emissions may, as an alternative to operating the continuous monitoring system described in paragraph (a) of this section, install, certify, maintain, operate, and quality-assure a continuous emission monitoring system (CEMS) consisting of NOX and O2 monitors. As an alternative, a CO2 monitor may be used to adjust the measured NOX concentrations to 15 percent O2 by either converting the CO2 hourly averages to equivalent O2 concentrations using Equation F-14a or F-14b in appendix F to 40 CFR Part 75 and making the adjustments to 15 percent O2, or by using the CO2 readings directly to make the adjustments, as described in Method 20. If the option to use a CEMS is chosen, the CEMS shall be installed, certified, maintained and operated as specified in 40 CFR 60.334(b)(1), (2) and (3).

Condition 85: Compliance Certification
Effective for entire length of Permit

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Applicable Federal Requirement:40CFR 60.334(c), NSPS Subpart GG

Item 85.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For any turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which does not use steam or water injection to control NOX emissions, the owner or operator may, for purposes of determining excess emissions, use a CEMS that meets the requirements of paragraph (b) of 40 CFR 60.334. Also, if the owner or operator has previously submitted and received EPA or local permitting authority approval of a petition for an alternative procedure of continuously monitoring compliance with the applicable NOX emission limit under §60.332, that approved procedure may continue to be used, even if it deviates from paragraph (a) of 40 CFR 60.334.

Reference Test Method: 40 CFR appendix B&F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 86: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.334(h)(3), NSPS Subpart GG

Item 86.1:

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

Emission Unit: U-00001

Emission Point: 00001

Process: 1BG

Emission Unit: U-00001

Emission Point: 00001

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Facility DEC ID: 4192200055

Process: 1MG

Emission Unit: U-00002
Process: 2BG

Emission Point: 00002

Emission Unit: U-00002
Process: 2MG

Emission Point: 00002

Emission Unit: U-00003
Process: 3BG

Emission Point: 00003

Emission Unit: U-00003
Process: 3MG

Emission Point: 00003

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The facility previously determined that the natural gas meets the definition of pipeline natural gas with a sulfur content less than or equal to 0.5 grains/100 scf as defined in 40 CFR 72.2. It therefore also meets the definition of natural gas as described in §60.331(u) with a sulfur content less than or equal to 20 gr/100 scf.

The facility will perform monthly emission calculations and will either perform an annual sulfur content analysis or obtain such an analysis from the gas supplier. The combustion turbines must also meet the SO₂ lb/hr emission limit, specified elsewhere in this permit, for natural gas operations.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 20 grains per 100 scf

Reference Test Method: 40 CFR Part 75, APPENDIX D

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Applicable Federal Requirement: 40CFR 60.334(j), NSPS Subpart GG

Item 87.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: 1BD

Emission Unit: U-00001
Process: 1BG

Emission Unit: U-00001
Process: 1MD

Emission Unit: U-00001
Process: 1MG

Emission Unit: U-00002
Process: 2BD

Emission Unit: U-00002
Process: 2BG

Emission Unit: U-00002
Process: 2MD

Emission Unit: U-00002
Process: 2MG

Emission Unit: U-00003
Process: 3BD

Emission Unit: U-00003
Process: 3BG

Emission Unit: U-00003
Process: 3MD

Emission Unit: U-00003
Process: 3MG

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content or fuel nitrogen content under this subpart, the owner or operator shall submit reports of

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excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions shall be reported for all periods of unit operation, including start-up, shutdown and malfunction. For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that shall be reported are defined in 40 CFR 60 Subpart GG-334(j)(1) - (5).

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 88: Compliance Certification
Effective for entire length of Permit

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

Item 88.1:

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

Emission Unit: U-00005

Emission Unit: U-00006

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Initial compliance will be demonstrated according to the provisions in 40 CFR 63.6630.

Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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Facility DEC ID: 4192200055

DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 89: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 72.9, Subpart A

Item 89.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

40 CFR Part 72.9 lists the requirements for permits, monitoring, SO₂ allowances, recordkeeping, and reporting. Sulfur dioxide emissions will be calculated hourly based on fuel usage and sulfur content in accordance with 40 CFR 60, Subpart GG, 40 CFR Part 72, and 40 CFR Part 75.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 90: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA

Item 90.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 90.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.
- (2) The facility, and the designated representative, of each TR NOx Annual source (facility) and each TR NOx Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.
- (3) The emissions data determined shall be used to calculate allocations of TR NOx Annual allowances and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual facility and each TR NOx Annual Unit at the facility shall hold, in the facilities compliance account, TR NOx Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 91: Compliance Certification
Effective for entire length of Permit

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Applicable Federal Requirement: 40CFR 97.606, Subpart CCCCC**Item 91.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618 of Subpart CCCCC. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR SO₂ Group 1 source (facility) and each TR SO₂ Group 1 Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635 of Subpart CCCCC and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR SO₂ Group 1 allowances and to determine compliance with the TR SO₂ Group 1 emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR SO₂ Group 1 facility and each TR SO₂ Group 1 Unit at the facility shall hold, in the facilities compliance account, TR SO₂ Group 1 allowances available for deduction for such control period under §97.624(a) in an amount not less than the tons of total SO₂ emissions for such control period from all TR

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SO2 Group 1 Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 92: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 97.1006, Subpart GGGGG

Item 92.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.1013 through 97.1018 of Subpart GGGGG. The facility shall notify the Department of this representative (and alternate) with contact information upon issuance of this permit and when any changes are made to the representative (or alternate) or their contact information.

(2) The facility, and the designated representative, of each CSAPR NOx Ozone Season Group 3 source (facility) and each CSAPR NOx Ozone Season Group unit at the facility must comply with the monitoring, reporting, and recordkeeping requirements of §§97.1030 through 97.1035 of Subpart GGGGG and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are to be submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are to be submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of CSAPR NOx Ozone Season allowances and to determine compliance with the CSAPR NOx Ozone

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Season emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each CSAPR NOx Ozone Season facility and each CSAPR NOx Ozone Season Unit at the facility shall hold, in the facilities compliance account, CSAPR NOx Ozone Season allowances available for deduction for such control period under §97.1024(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Ozone Season Group 3 units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

**Condition 93: Emission Point Definition By Emission Unit
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 93.1:

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

Emission Unit: U-00001

Emission Point: 00001

Height (ft.): 180 Diameter (in.): 228
NYTMN (km.): 4680.713 NYTME (km.): 594.753 Building: TB

Item 93.2:

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

Emission Unit: U-00002

Emission Point: 00002

Height (ft.): 180 Diameter (in.): 228
NYTMN (km.): 4680.699 NYTME (km.): 594.818 Building: TB

Item 93.3:

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

Emission Unit: U-00003

Emission Point: 00003

Height (ft.): 180 Diameter (in.): 228
NYTMN (km.): 4680.685 NYTME (km.): 594.883 Building: TB

Item 93.4:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

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

Emission Unit: U-00005

Emission Point: 00005

Height (ft.): 15

Diameter (in.): 14

NYTMN (km.): 4680.608 NYTME (km.): 594.786

Item 93.5:

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

Emission Unit: U-00006

Emission Point: 00006

Height (ft.): 13

Diameter (in.): 6

NYTMN (km.): 4680.839 NYTME (km.): 594.752

**Condition 94: Process Definition By Emission Unit
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 94.1:

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

Emission Unit: U-00001

Process: 1BD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse Model 501G combustion Turbine firing low sulfur (<0.05%) distillate fuel oil with a maximum input rating of 2,940 MMBtu/hr. NOx emissions are controlled with water or steam injection and SCR using aqueous ammonia injection. Base load operation, rated at 245 MW at ISO conditions.

Emission Source/Control: 00CT1 - Combustion

Design Capacity: 245 megawatt

Item 94.2:

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

Emission Unit: U-00001

Process: 1BG

Source Classification Code: 2-01-002-01

Process Description:

Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmBtu/hr. Nitrogen oxide (NOx) emissions are controlled with dry low NOx combustion technology and selective catalytic reduction (SCR) using aqueous ammonia injection. Base load operation is rated at 245 MW at ISO conditions.

Emission Source/Control: 00CT1 - Combustion

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Design Capacity: 245 megawatt

Item 94.3:

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

Emission Unit: U-00001

Process: 1MD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse Model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmbtu/hr. NOx emissions are controlled with water or steam injection and SCR using aqueous ammonia injection. The minimum operating load is the Minimum Emissions Compliance Load (MECL) which is the minimum load level for the existing ambient and turbine operating conditions at which the applicable NOx and CO emission limits are met, as determined by the CEMS.

Emission Source/Control: 00CT1 - Combustion

Design Capacity: 245 megawatt

Item 94.4:

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

Emission Unit: U-00001

Process: 1MG

Source Classification Code: 2-01-002-01

Process Description:

Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmbtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous ammonia injection. The minimum operating load is the Minimum Emissions Compliance Load (MECL) which is the minimum load level for the existing ambient and turbine operating conditions at which the applicable NOx and CO emission limits are met, as determined by the CEMS.

Emission Source/Control: 00CT1 - Combustion

Design Capacity: 245 megawatt

Item 94.5:

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

Emission Unit: U-00001

Process: 1SD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse Model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmbtu/hr. NOx emissions are controlled with water or steam injection and SCR using aqueous ammonia injection. Start-up and shut-down operation, at operation loads less than 75% or the Minimum Emissions

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Facility DEC ID: 4192200055

Compliance Load (MECL), as applicable.

Emission Source/Control: 00CT1 - Combustion
 Design Capacity: 245 megawatt

Item 94.6:

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

Emission Unit: U-00001
 Process: 1SG Source Classification Code: 2-01-002-01
 Process Description:
 Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmbtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous ammonia injection. Start-up and shut-down operation, at operation loads less than 75% or the Minimum Emissions Compliance Load (MECL), as applicable..

Emission Source/Control: 00CT1 - Combustion
 Design Capacity: 245 megawatt

Item 94.7:

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

Emission Unit: U-00002
 Process: 2BD Source Classification Code: 2-01-001-01
 Process Description:
 Westinghouse Model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmbtu/hr. NOx emissions are controlled with water/steam injection and SCR using aqueous ammonia injection. Base load operation, rated 245 MW at ISO conditions.

Emission Source/Control: 00CT2 - Combustion
 Design Capacity: 245 megawatt

Item 94.8:

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

Emission Unit: U-00002
 Process: 2BG Source Classification Code: 2-01-002-01
 Process Description:
 Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmbtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous ammonia injection. Base load operation, rated 245 mw at ISO conditions.

Emission Source/Control: 00CT2 - Combustion
 Design Capacity: 245 megawatt

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Item 94.9:

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

Emission Unit: U-00002

Process: 2MD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse Model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmbtu/hr. NOx emissions are controlled with water or steam injection and SCR using aqueous ammonia injection. The minimum operating load is the Minimum Emissions Compliance Load (MECL) which is the minimum load level for the existing ambient and turbine operating conditions at which the applicable NOx and CO emission limits are met, as determined by the CEMS.

Emission Source/Control: 00CT2 - Combustion

Design Capacity: 245 megawatt

Item 94.10:

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

Emission Unit: U-00002

Process: 2MG

Source Classification Code: 2-01-002-01

Process Description:

Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmbtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous ammonia injection. The minimum operating load is the Minimum Emissions Compliance Load (MECL) which is the minimum load level for the existing ambient and turbine operating conditions at which the applicable NOx and CO emission limits are met, as determined by the CEMS.

Emission Source/Control: 00CT2 - Combustion

Design Capacity: 245 megawatt

Item 94.11:

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

Emission Unit: U-00002

Process: 2SD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse model 501G combustion turbine firing low sulfur (0.05%) distillate fuel oil with maximum input rating of 2940 mmBtu/hr. NOx emissions are controlled with water or steam injection and SCR using aqueous ammonia injection. Startup and shutdown operation, at operation loads less than 75% or the Minimum Emissions Compliance Load (MECL), as applicable.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Emission Source/Control: 00CT2 - Combustion
 Design Capacity: 245 megawatt

Item 94.12:

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

Emission Unit: U-00002
 Process: 2SG Source Classification Code: 2-01-002-01
 Process Description:
 Westinghouse model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmBtu/hr. NOx emissions are controlled with dry low NOx combustion technology and SCR using aqueous ammonia injection. Startup and shutdown operation, at operation loads less than 75% or the Minimum Emissions Compliance Load (MECL), as applicable.

Emission Source/Control: 00CT2 - Combustion
 Design Capacity: 245 megawatt

Item 94.13:

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

Emission Unit: U-00003
 Process: 3BD Source Classification Code: 2-01-001-01
 Process Description:
 Westinghouse model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmBtu/hr. NOx emissions are controlled with water/steam injection and SCR using aqueous ammonia injection. Base load operation rated at 245 MW at ISO conditions.

Emission Source/Control: 00CT3 - Combustion
 Design Capacity: 245 megawatt

Item 94.14:

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

Emission Unit: U-00003
 Process: 3BG Source Classification Code: 2-01-002-01
 Process Description:
 Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmBtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous injection. Base load operation, rated at 245 MW at ISO conditions.

Emission Source/Control: 00CT3 - Combustion
 Design Capacity: 245 megawatt

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Item 94.15:

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

Emission Unit: U-00003

Process: 3MD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse Model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmBtu/hr. NOx emissions are controlled with water/steam injection and SCR using aqueous ammonia injection. The minimum operating load is the Minimum Emissions Compliance Load (MECL) which is the minimum load level for the existing ambient and turbine operating conditions at which the applicable NOx and CO emission limits are met, as determined by the CEMS.

Emission Source/Control: 00CT3 - Combustion

Design Capacity: 245 megawatt

Item 94.16:

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

Emission Unit: U-00003

Process: 3MG

Source Classification Code: 2-01-002-01

Process Description:

Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmBtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous ammonia injection. The minimum operating load is the Minimum Emissions Compliance Load (MECL) which is the minimum load level for the existing ambient and turbine operating conditions at which the applicable NOx and CO emission limits are met, as determined by the CEMS.

Emission Source/Control: 00CT3 - Combustion

Design Capacity: 245 megawatt

Item 94.17:

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

Emission Unit: U-00003

Process: 3SD

Source Classification Code: 2-01-001-01

Process Description:

Westinghouse Model 501G combustion turbine firing low sulfur (<0.05%) distillate fuel oil with maximum input rating of 2940 mmbtu/hr. NOx emissions are controlled with water or steam injection and SCR using aqueous ammonia injection. Start-up and shut-down operation, at operation loads less than 75% or the Minimum Emissions Compliance Load (MECL), as applicable.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Emission Source/Control: 00CT3 - Combustion
 Design Capacity: 245 megawatt

Item 94.18:

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

Emission Unit: U-00003
 Process: 3SG Source Classification Code: 2-01-002-01

Process Description:

Westinghouse Model 501G combustion turbine firing natural gas with maximum input rating of 3100 mmbtu/hr. NOx emissions are controlled with dry low-NOx combustion technology and SCR using aqueous ammonia injection. Start-up and shut-down operation, at operation loads less than 75% or the Minimum Emissions Compliance Load (MECL), as applicable.

Emission Source/Control: 00CT3 - Combustion
 Design Capacity: 245 megawatt

Item 94.19:

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

Emission Unit: U-00005
 Process: DEG Source Classification Code: 2-02-001-02

Process Description:

Diesel fired emergency generator, Caterpillar type SR4B, with 3512b-le engine, rated at 1500 kw. Maximum fuel consumption is 112.7 gph, with 500 gallon double wall tank with rupture basin. Maximum operation is 500 hours/year.

Emission Source/Control: 00DEG - Combustion
 Design Capacity: 1,500 kilowatts

Item 94.20:

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

Emission Unit: U-00006
 Process: DFP Source Classification Code: 2-02-001-02

Process Description:

Diesel emergency fire pump, Detroit model JDFP-06WA, 6 cylinder, rated at 265 hp, with maximum fuel consumption of 13.98 gph. Maximum operation is 500 hours/year.

Emission Source/Control: 00DFP - Combustion
 Design Capacity: 265 horsepower (electric)

**Condition 95: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 227-2.4 (e) (2)

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Item 95.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: 1BG	Emission Point: 00001
Emission Unit: U-00001 Process: 1MG	Emission Point: 00001
Emission Unit: U-00002 Process: 2BG	Emission Point: 00002
Emission Unit: U-00002 Process: 2MG	Emission Point: 00002
Emission Unit: U-00003 Process: 3BG	Emission Point: 00003
Emission Unit: U-00003 Process: 3MG	Emission Point: 00003
Regulated Contaminant(s):	
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition applies to natural gas firing in combined cycle combustion turbines and is applicable until June 30th 2014. The owner or operator shall install, calibrate, maintain, and operate a CEMS for the monitoring of NOx in accordance with the requirements of this subpart.

Compliance with the emission limit will be based on a block hourly arithmetic average emission rates using data points generated by CEMS and expressed in terms of parts per million on a dry volume basis, corrected to 15 percent oxygen.

Owners or operators required to use 40 CFR Part 75 monitoring reference methods are required to do so. Any other owners or operators may use either 40 CFR Part 60 or 40 CFR Part 75 monitoring reference methods.

The owner or operator will maintain records on-site for a minimum of five years.

Manufacturer Name/Model Number: NOx Analyzer

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 42 parts per million by volume (dry, corrected to 15% O2)
 Reference Test Method: See monitoring description
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 0 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 96: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2)

Item 96.1:

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

Emission Unit: U-00001	Emission Point: 00001
Process: 1BD	

Emission Unit: U-00001	Emission Point: 00001
Process: 1MD	

Emission Unit: U-00002	Emission Point: 00002
Process: 2BD	

Emission Unit: U-00002	Emission Point: 00002
Process: 2MD	

Emission Unit: U-00003	Emission Point: 00003
Process: 3BD	

Emission Unit: U-00003	Emission Point: 00003
Process: 3MD	

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

Item 96.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition applies to distillate oil firing in combined cycle combustion turbines and is applicable until June 30th 2014. The owner or operator shall install, calibrate, maintain, and operate a CEMS for the monitoring of NOx in accordance with the requirements of this subpart.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Compliance with the emission limit will be based on a block hourly arithmetic average emission rates using data points generated by CEMS and expressed in terms of parts per million on a dry volume basis, corrected to 15 percent oxygen.

Owners or operators required to use 40 CFR Part 75 monitoring reference methods are required to do so. Any other owners or operators may use either 40 CFR Part 60 or 40 CFR Part 75 monitoring reference methods.

The owner or operator will maintain records on-site for a minimum of five years.

Manufacturer Name/Model Number: NO_x Analyzer
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 65 parts per million by volume (dry, corrected to 15% O₂)
Reference Test Method: See monitoring description
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR BLOCK AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 0 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 97: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.5

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00005

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

Item 97.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall limit the emissions of volatile organic compounds (VOC) from the emergency diesel generator to no more than 1.7 lb/hr in order to comply with the requirements of New Source Review in 6 NYCRR Part 231. This emission limit is a discrete one hour average at design operating conditions and was demonstrated during an initial compliance test that was performed within 12 months of startup.

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Upper Permit Limit: 1.7 pounds per hour
Reference Test Method: EPA Method 18/25A
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 98: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-2.5

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00005

Regulated Contaminant(s):

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

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall limit the emissions of nitrogen oxides (NOx) from the emergency diesel generator to no more than 64.4 lb/hr in order to comply with the BACT requirements of PSD. This emission limit is a discrete one hour average at design operating conditions and was demonstrated during an initial compliance test that was performed within 12 months of startup.

Upper Permit Limit: 64.4 pounds per hour
Reference Test Method: EPA Method 7E
Monitoring Frequency: SINGLE OCCURRENCE
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 99: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-2.5

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00006

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 99.2:

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit is a discrete one hour average at design operating conditions. The unit demonstrated compliance during an initial compliance test. The unit will be maintained according to the manufacturer's specifications with an annual tune-up.

Upper Permit Limit: 0.5 pounds per hour

Reference Test Method: RM-25A with Methane/Ethane backout

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 100: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.5

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00006

Regulated Contaminant(s):

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

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit is a discrete one hour average at design operating conditions. The unit demonstrated compliance during an initial compliance test. The unit will be maintained according to the manufacturer's specifications with an annual tune-up.

Upper Permit Limit: 18.0 pounds per hour

Reference Test Method: RM-20/7E

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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Facility DEC ID: 4192200055

Permit ID: 4-1922-00055/00005

Facility DEC ID: 4192200055

STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined in 6 NYCRR 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 demonstrate, 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 facility was being properly operated and maintained;

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

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all

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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 101: Contaminant List
Effective for entire length of Permit**

Applicable State Requirement: ECL 19-0301

Item 101.1:

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

CAS No: 000050-00-0
Name: FORMALDEHYDE

CAS No: 000124-38-9
Name: CARBON DIOXIDE

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

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

CAS No: 007664-41-7
Name: AMMONIA

CAS No: 007664-93-9
Name: SULFURIC ACID

CAS No: 0NY075-00-0

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Name: PARTICULATES

CAS No: 0NY075-00-5

Name: PM-10

CAS No: 0NY100-00-0

Name: TOTAL HAP

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

Condition 102: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 201-1.4

Item 102.1:

(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 maintenance and start-up/shutdown activities when they are expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when required by a permit condition or upon request by the department. Such reports shall state whether an exceedance occurred and if it was unavoidable, include the time, frequency and duration of the exceedance, 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 monitoring and quarterly reporting requirements need not submit additional reports of exceedances to the department.

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall 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. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. 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, the air contaminants emitted, and the resulting emission rates and/or opacity.

(d) The department may also require the facility 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

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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 103: Air pollution prohibited
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 211.1

Item 103.1:

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.

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

**Condition 104: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement:6 NYCRR 251.3 (b)

Item 104.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Emission Unit: U-00003

Regulated Contaminant(s):
CAS No: 000124-38-9 CARBON DIOXIDE

Item 104.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

On or after December 31, 2020, owners or operators of non-modified existing sources shall not fire any single fossil fuel, alone or in combination with any other fuel, where each fossil fuel is required to meet an emission

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rate of 1800 pounds of CO₂ per MW hour gross electrical output (output-based limit). These emission limits are measured on an annual basis, calculated by dividing the annual total of CO₂ emissions for the calendar year by the annual total MW hour gross electrical output (output-based limit) for each separate fossil fuel fired. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Manufacturer Name/Model Number: CO₂ Continuous Monitor

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 1800 pounds per megawatt hour

Monitoring Frequency: CONTINUOUS

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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