

Facility DEC ID: 7311500204

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
 Permit ID: 7-3115-00204/00007
 Mod 0 Effective Date: 06/22/2021 Expiration Date: 06/21/2026
 Mod 1 Effective Date: Expiration Date:

Permit Issued To: SYRACUSE UNIVERSITY
 029 LYMAN HALL @ 100 COLLEGE PL
 SYRACUSE, NY 13244-1100

Contact: Pete Sala
 Syracuse University - Vice President and Chief Facilities Officer
 1320 Jamesville Ave
 Syracuse, NY 13244
 (315) 443-3517

Facility: SYRACUSE UNIVERSITY - STEAM STATION
 500 E TAYLOR ST
 Syracuse, NY 13244-6500

Description:
 The facility covered under the Title V permit encompasses both the Steam Station and the University's Main Campus. The Steam Station consists of four (4) boilers capable of firing either natural gas or No. 2 fuel oil. Boilers 3 and 4 (the Riley boilers) are rated at 206 million British thermal units per hour (MMBtu/hr) and exhaust through a common stack (i.e., emission point SU001). Boilers 6 and 7 (the Alco boilers) are rated at 138 MMBtu/hr and exhaust through a common stack (i.e., emission point SU002).

As part of this project, the two existing Alco boilers will be permanently taken offline and physically removed, as the new assets will be housed in the existing Alco Building. Electricity will be produced by a new 7.2-megawatt natural gas-fired turbine with a 749 MMBtu/hr natural gas-fired duct burner. Steam will be produced by a new heat recovery steam generator (HRSG), which will exhaust through a common stack (i.e., emission point SU003).

An auxiliary packaged water-tube boiler rated at 99.89 MMBtu/hr, equipped with low-NOx burners, will exhaust through a common stack (i.e., emission point SU008), along with the two existing steam boilers that will remain in the Riley Building.

For the purposes of air permitting, the project will also include the installation of a 2.0 MW natural gas-fired emergency generator, which will exhaust through a common stack (i.e., emission point EG001).

All other sources of emissions at the Steam Station and the University's Main Campus are either trivial or exempt.

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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: KEVIN M BALDUZZI
 NYSDEC - REGION 7
 5786 Widewaters Pkwy
 SYRACUSE, NY 13214-1867

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

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

Applicable State Requirement: 6 NYCRR 621.11

Item 1-1.1:

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

Item 1-1.2:

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

Item 1-1.3

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 7 HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
 NYSDEC Regional Permit Administrator
 Region 7 Headquarters
 Division of Environmental Permits
 615 Erie Blvd West
 Syracuse, NY 13204-2400
 (315) 426-7400

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: SYRACUSE UNIVERSITY
029 LYMAN HALL @ 100 COLLEGE PL
SYRACUSE, NY 13244-1100

Facility: SYRACUSE UNIVERSITY - STEAM STATION
500 E TAYLOR ST
Syracuse, NY 13244-6500

Authorized Activity By Standard Industrial Classification Code:
4961 - STEAM SUPPLY
8221 - COLLEGES AND UNIVERSITIES, NEC

Permit Effective Date:

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- 23 1-10 6 NYCRR 227-1.3 (c): Compliance Certification
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- 24 1-12 6 NYCRR 231-6.2: Compliance Certification

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- 26 1-14 40CFR 60.4330, NSPS Subpart KKKK: Compliance Certification
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- 29 1-18 40CFR 60.4375(b), NSPS Subpart KKKK: Compliance Certification
- 30 1-19 40CFR 60.4400, NSPS Subpart KKKK: NOx testing requirements
- 30 1-20 40CFR 60.4415, NSPS Subpart KKKK: Testing requirements for sulfur dioxide

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- 30 1-21 6 NYCRR 227-2.4 (e) (2): Compliance Certification
- 31 1-22 6 NYCRR 227-2.4 (e) (2): Compliance Certification
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- 32 1-24 6 NYCRR 227-2.4 (e) (2): Compliance Certification
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EU=U-COGEN,EP=SU008

35 1-27 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification

EU=U-COGEN,EP=SU008,Proc=B8G

35 1-28 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

36 1-29 40CFR 60.48c(j), NSPS Subpart Dc: Compliance Certification

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36 1-30 6 NYCRR 227-2.4 (c) (1): Compliance Certification

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39 1-33 6 NYCRR 211.2: Compliance Certification

40 1-34 6 NYCRR 227-1.4 (b) (1): Compliance Certification

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42 1-35 6 NYCRR 211.2: Compliance Certification

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 1/Mod 1/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 1-1: Modeling Report
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 200.6****Replaces Condition(s) 21**

Item 1-1.1: The facility owner or operator shall attach a copy of the final emissions modeling report for this facility, as approved by the Department, to this permit. The facility owner or operator shall implement all property access restrictions or other measures that are

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included in the approved modeling report. These restrictions include, but are not limited to, the posting and patrolling of facility property, restricted access to portions of the property when specific operations occur, or the requirement to place barriers along the property line. Any future updates to the approved modeling report must be incorporated into the version attached to this permit and implemented as appropriate.

Condition 1-2: Compliance Certification
Effective for entire length of Permit

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

Replaces Condition(s) 6

Item 1-2.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-2.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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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 7 Headquarters
5786 Widewaters Parkway
Syracuse, NY 13214-1867

The address for the BQA is as follows:

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

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

Condition 6: Compliance Certification
Effective between the dates of 06/22/2021 and Permit Expiration Date

Applicable Federal Requirement:

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Replaced by Condition(s) 1-2**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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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 7 Headquarters
615 Erie Boulevard, West
Syracuse, NY 13204-2400

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 12 calendar month(s).

Condition 7: Compliance Certification
Effective between the dates of 06/22/2021 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 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

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Resources, Bureau of Air Quality Planning, 625 Broadway,
Albany NY 12233-3251

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 0 days after the reporting period.
The initial report is due 12/31/2021.
Subsequent reports are due every 12 calendar month(s).

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

Condition 21: Compliance Certification
Effective between the dates of 06/22/2021 and Permit Expiration Date

Applicable Federal Requirement:

Replaced by Condition(s) 1-1

Item 21.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):
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:

Syracuse University steam station shall perform NOx modeling to determine compliance with the National Ambient Air Quality Standards.

1. No later than 180 days after the effective date of this permit, the owner or operator shall submit to the DEC a modeling protocol.

2. No later than 60 days after approval of the modeling protocol, the owner or operator shall submit to the Department a report of such modeling.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 22: Emission Unit Definition
Effective between the dates of 06/22/2021 and Permit Expiration Date

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Applicable Federal Requirement:6 NYCRR Subpart 201-6**Item 22.1(From Mod 1):**

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

Emission Unit: U-COGEN

Emission Unit Description:

This emission unit includes an 7.2 MW natural gas-fired turbine with a heat input rate of 105.1 MMBtu/hr, along with a heat recovery steam generator (HRSG) that will include a 54.4 MMBtu/hr duct burner. Also included is a 99.9 MMBtu/hr natural gas-fired boiler, a 99.9 MMBtu/hr natural gas fired temporary boiler for use while the turbine, package boiler, and HRSG are being installed and an emergency generator.

Building(s): Alco

Item 22.2(From Mod 1):

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

Emission Unit: U-S0034

Emission Unit Description:

Two Riley Stoker superheated boilers (Units 3 and 4) rated at 206 mmBtu/hr each. The boilers are capable of firing both natural gas and No. 2 fuel oil and share a common stack. These boilers are operated as natural gas-fired boilers as defined in 40 CFR 63.11237, so they are not subject to 40 CFR 63, Subpart JJJJJ.

Building(s): Riley

Item 22.3(From Mod 1):

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

Emission Unit: U-S0067

Emission Unit Description:

Two Babcock and Wilcox superheated steam boilers (the Alco boilers, Units 6 and 7) rated at 138 mmBtu/hr each. The boilers are capable of firing both natural gas and No. 2 fuel oil and share a common stack. These boilers are operated as "natural gas" boilers as defined in 40 CFR 63.11237, so therefore they are not subject to 40 CFR 63, Subpart JJJJJ.

Building(s): Alco

Condition 1-3: Operational Flexibility
Effective for entire length of Permit**Applicable Federal Requirement:6 NYCRR 201-6.4 (f)****Item 1-3.1:**

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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 1-4: Facility Permissible Emissions
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 1-4.1:

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

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

CAS No: 0NY750-00-0 (From Mod 1) PTE: 308,648,000
pounds per year
Name: CARBON DIOXIDE EQUIVALENTS

Condition 1-5: Capping Monitoring Condition
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 1-5.1:

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

ECL 75-0107 (1)

Item 1-5.2:

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

Item 1-5.3:

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

Item 1-5.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This

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certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 1-5.5:

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

Item 1-5.6:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 1-5.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

Total combined direct and upstream emissions of carbon dioxide equivalents (CO₂e) from Steam Station operations — including the turbine with duct burner, auxiliary boiler, and emergency generator, as well as upstream emissions associated with natural gas supply and displaced purchased electricity — shall not exceed 308,648,000 pounds per 12-month rolling period (equivalent to approximately 154,324 short tons).

To demonstrate compliance, the owner or operator shall track the operating hours and fuel usage of each of the above-listed sources covered by this emission cap and perform monthly and rolling 12-month total CO₂e emission calculations for both direct and upstream emissions.

CO₂e emission calculations shall be based on the 20-year global warming potentials (GWPs) listed in 6 NYCRR Part 496, and upstream emissions shall be calculated using the emission factors contained in the most recent Appendix to the New York Statewide Greenhouse Gas Emissions Report published by the Department.

Parameter Monitored: CARBON DIOXIDE EQUIVALENTS

Upper Permit Limit: 308648000 pounds per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

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 1-6: Statement dates for emissions statements.
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 202-2.4 (a) (3)

Item 1-6.1:

This facility is required to submit an annual emission statement electronically and these emissions statements must be submitted to the department as per the following schedule:

- (i) March 15th of each year for facilities with three or fewer processes listed in their Title V permit:
- (ii) March 31st of each year for facilities with four to six processes listed in their Title V permit:
- (iii) April 15th of each year for facilities with 7 to 12 processes listed in their Title V permit:
- (iv) April 30th of each year for facilities with 13 or more processes listed in their Title V permit.

**Condition 30: Compliance Certification
Effective between the dates of 06/22/2021 and Permit Expiration Date**

Applicable Federal Requirement:

Expired by Mod 1

Item 30.1:

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

Emission Unit: U-S0034
Process: B3O

Emission Unit: U-S0034
Process: B4O

Emission Unit: U-S0067
Process: B6O

Emission Unit: U-S0067
Process: B7O

Item 30.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

DEC regulations generally require any person who owns a

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stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour (sum of the maximum heat input capacity of all units which are operated simultaneously and are connected to a common stack) to install and operate a device to continuously monitor opacity. However, 6 NYCRR 227-1.4(d)(2) allows the DEC to waive the requirement and set forth alternative monitoring requirements if the installation of a continuous stack monitoring system would impose an extreme economic burden on the source owner. Given that the boilers burn primarily natural gas, the DEC, on the effective date of this permit, is only requiring the use of continuous opacity monitors if the boilers begin to fire oil on a routine basis.

The following apply to the owners or operators of Boilers 3, 4, 6 and 7 (Emission Sources Boil3, Boil4, Boil6, and Boil 7).

1. Pursuant to 6 NYCRR 227-1.4(d)(2), beginning on the effective date of this permit, the owner or operator is not required to monitor opacity with a continuous opacity monitor, except as provided in items 2 and 3 below.
2. If the owner or operator combusts oil in excess of 1450 hours per 12 month rolling period in Boiler 3 and Boiler 4 combined, then the owner or operator shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity.
3. If the owner or operator combusts oil in excess of 1450 hours per 12 month rolling period in Boiler 6 and Boiler 7 combined, then the owner or operator shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity.
4. If a continuous opacity monitor is installed, from that point on it shall be operated and maintained; however, the opacity monitor(s) is not required to be operated during those periods when only natural gas is combusted.

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5. Upon installation and operation of a continuous opacity monitor, the owner or operator shall submit to the DEC, on a quarterly basis,

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

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

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

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

(5) the total number of exceedences and the duration of exceedences expressed as a percentage of the total time in which the COMS are required to record data; and

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

Such reports shall be submitted no later than 60 days after the end of each calendar quarter.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

**Condition 1-7: Applicability of Subpart A General Provisions
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 60, NSPS Subpart A

Item 1-7.1:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting

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requirements.

Condition 1-8: Applicability
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60, NSPS Subpart KKKK

Item 1-8.1:

Facilities with a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu) per hour, based on the higher heating value of the fuel, which commenced construction, modification, or reconstruction after February 18, 2005 are subject to the requirements of 40 CFR 60 Subpart KKKK.

Condition 1-9: General Provisions
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 63, Subpart A

Item 1-9.1:

This emission source is subject to the applicable provisions of 40 CFR 63 Subpart A. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

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

Condition 39: Emission Point Definition By Emission Unit
Effective between the dates of 06/22/2021 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 39.1(From Mod 1):

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

Emission Unit: U-COGEN

Emission Point: EG001

Height (ft.): 23	Diameter (in.): 16	
NYTMN (km.): 4765.811	NYTME (km.): 406.892	Building: Alco

Emission Point: SU003

Height (ft.): 172	Diameter (in.): 105	
NYTMN (km.): 4765.814	NYTME (km.): 406.788	Building: Alco

Emission Point: SU008

Height (ft.): 111	Diameter (in.): 60	
NYTMN (km.): 4765.805	NYTME (km.): 406.78	Building: Alco

Emission Point: TMP01

Height (ft.): 28	Diameter (in.): 60	
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NYTMN (km.): 4765.81 NYTME (km.): 406.885

Item 39.2(From Mod 1):

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

Emission Unit: U-S0034

Emission Point: SU001

Height (ft.): 175

Diameter (in.): 122

NYTMN (km.): 4765.722 NYTME (km.): 406.732 Building: Riley

Item 39.3(From Mod 1):

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

Emission Unit: U-S0067

Emission Point: SU002

Height (ft.): 172

Diameter (in.): 105

NYTMN (km.): 4765.814 NYTME (km.): 406.788 Building: Alco

Condition 40: Process Definition By Emission Unit**Effective between the dates of 06/22/2021 and Permit Expiration Date****Applicable Federal Requirement: 6 NYCRR Subpart 201-6****Item 40.1(From Mod 1):**

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

Emission Unit: U-COGEN

Process: B8G

Source Classification Code: 1-03-006-02

Process Description:

This process includes a boiler rated at 99.89 MMBtu/hr firing natural gas. The boiler is equipped with Low NOx burners.

Emission Source/Control: BOIL8 - Combustion

Design Capacity: 99.89 million Btu per hour

Item 40.2(From Mod 1):

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

Emission Unit: U-COGEN

Process: EG1

Source Classification Code: 2-03-002-07

Process Description:

This process includes a 2682 HP emergency natural gas generator. This generator is exempt from permitting pursuant to 6 NYCRR 201-3.2(c)(6) but is being included for purposes of the emission cap on U-COGEN.

Emission Source/Control: ENG01 - Combustion

Design Capacity: 2,000 kilowatts

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Item 40.3(From Mod 1):

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

Emission Unit: U-COGEN

Process: TB1

Source Classification Code: 2-03-002-03

Process Description:

This process includes an 7.2 MW natural gas-fired turbine with a heat input rate of 105.1 MMBtu/hr, along with an unfired heat recovery steam generator (HRSG).

Emission Source/Control: TRBN1 - Combustion

Design Capacity: 7.2 megawatt

Item 40.4(From Mod 1):

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

Emission Unit: U-COGEN

Process: TB2

Source Classification Code: 2-03-002-03

Process Description:

This process includes an 7.2 MW natural gas-fired turbine with a heat input rate of 105.1 MMBtu/hr, along with a fired heat recovery steam generator (HRSG).

Emission Source/Control: DBRN1 - Combustion

Design Capacity: 54.4 million Btu per hour

Emission Source/Control: TRBN1 - Combustion

Design Capacity: 7.2 megawatt

Item 40.5(From Mod 1):

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

Emission Unit: U-COGEN

Process: TMP

Source Classification Code: 1-03-006-02

Process Description:

This process includes a 99.89 MMBtu/hr temporary boiler firing natural gas. The boiler will only operate in conjunction with the Riley boilers while the turbine is being installed.

Emission Source/Control: TBOIL - Combustion

Design Capacity: 99.9 million Btu per hour

Item 40.6(From Mod 1):

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

Emission Unit: U-S0034

Process: B3G

Source Classification Code: 1-03-006-01

Process Description:

A Riley Stoker boiler rated at 206 MMBtu/hr firing natural gas. These boilers are equipped with low NOx burners.

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Emission Source/Control: BOIL3 - Combustion
Design Capacity: 206 million Btu per hour

Item 40.7(From Mod 1):

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

Emission Unit: U-S0034
Process: B3O Source Classification Code: 1-03-005-01
Process Description:
A Riley Stoker boiler rated at 206 mmBtu/hr firing No. 2 fuel oil. These boilers are equipped with low NOx burners.

Emission Source/Control: BOIL3 - Combustion
Design Capacity: 206 million Btu per hour

Item 40.8(From Mod 1):

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

Emission Unit: U-S0034
Process: B4G Source Classification Code: 1-03-006-01
Process Description:
A Riley Stoker boiler rated at 206 mmBtu/hr firing natural gas. These boilers are equipped with low NOx burners.

Emission Source/Control: BOIL4 - Combustion
Design Capacity: 206 million Btu per hour

Item 40.9(From Mod 1):

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

Emission Unit: U-S0034
Process: B4O Source Classification Code: 1-03-005-01
Process Description:
A Riley Stoker boiler rated at 206 mmBtu/hr firing No. 2 fuel oil. These boilers are equipped with low NOx burners.

Emission Source/Control: BOIL4 - Combustion
Design Capacity: 206 million Btu per hour

Item 40.10(From Mod 1):

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

Emission Unit: U-S0067
Process: B6G Source Classification Code: 1-03-006-01
Process Description:
A Babcock and Wilcox boiler rated at 138 mmBtu/hr firing natural gas. No emission controls are installed.

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Emission Source/Control: BOIL6 - Combustion
Design Capacity: 138 million Btu per hour

Item 40.11(From Mod 1):

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

Emission Unit: U-S0067
Process: B6O Source Classification Code: 1-03-005-01
Process Description:
A Babcock and Wilcox boiler rated at 138 mmBtu/hr firing
No. 2 fuel oil. No emissions controls are installed.

Emission Source/Control: BOIL6 - Combustion
Design Capacity: 138 million Btu per hour

Item 40.12(From Mod 1):

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

Emission Unit: U-S0067
Process: B7G Source Classification Code: 1-03-006-01
Process Description:
A Babcock and Wilcox boiler rated at 138 mmBtu/hr firing
natural gas. No emission controls are installed.

Emission Source/Control: BOIL7 - Combustion
Design Capacity: 138 million Btu per hour

Item 40.13(From Mod 1):

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

Emission Unit: U-S0067
Process: B7O Source Classification Code: 1-03-005-01
Process Description:
A Babcock and Wilcox boiler rated at 138mmbtu/hr firing
No.2 fuel oil. No emission controls are installed.

Emission Source/Control: BOIL7 - Combustion
Design Capacity: 138 million Btu per hour

Condition 1-10: Compliance Certification
Effective for entire length of Permit

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

Item 1-10.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Item 1-10.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Stationary combustion installations subject to the requirements of this subpart shall perform an annual tune-up of their equipment.

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 1-11: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 227-1.4 (a)

Item 1-11.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Item 1-11.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of a combustion installation shall emit greater than 20 percent opacity except for one six-minute period per hour, not to exceed 27% based on a six-minute average. Stack testing will be conducted at the request of the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: 40 CFR Part 60, App. A, Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 1-12: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-6.2

Item 1-12.1:

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The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Regulated Contaminant(s):

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

Item 1-12.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Total combined emissions of oxides of nitrogen from the combined Alco Boiler ERCs, turbine and duct burner, the auxiliary boiler, and the emergency generator shall not exceed 100,800 pounds (50.4 tons) per 12-month rolling period.

Emissions from the combined turbine and duct burner will be calculated as the product of the emission rate, expressed in pounds of NO_x (expressed as NO₂) per million Btu, and the actual heat input for the turbine/duct burner. The heat input will be calculated by recording the daily amount of fuel burned in the system and the ambient temperature obtaining the gross heat content of the fuel burned.

Emissions from the auxiliary boiler will be calculated as the product of the emissions rate, expressed in pounds of NO_x (expressed as NO₂) per million Btu, and the actual heat input for that boiler. The heat input will be calculated by recording the daily amount of fuel burned in each boiler and obtaining the gross heat content of the fuel burned.

Emissions from the emergency generator will be calculated as the product of the emission rate, expressed in pounds of NO_x (expressed as NO₂) per million Btu, and the actual operating hours of the generator. The actual operating hours will be tracked using a non-resettable hour meter.

To demonstrate compliance, the facility will conduct initial and subsequent performance tests for the turbine and auxiliary boiler. The facility will also maintain records of fuel usage on a monthly basis and determine NO_x emissions on a 12-month rolling total.

The records must be kept on-site for five years.

The potential to emit (PTE) of oxides of nitrogen, 836,843

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pounds per year (418 tons per year), applies only to the permitted emission units identified in this permit and does not include exempt or trivial sources. This value includes the Alco boilers; once this modification is issued and the Alco boilers are permanently removed, the facility's actual PTE will be 537,490 pounds per year (269 tons per year) based on the remaining permitted emission units.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 100800 pounds per year

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.

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

Condition 1-13: Compliance Certification
Effective for entire length of Permit

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

Item 1-13.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: EG001

Process: EG1

Emission Source: ENG01

Item 1-13.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The 2685 HP/2000 KW emergency natural gas SI generator is exempt from NYSDEC permitting in accordance with 6 NYCRR 201-3.1(b) and 6 NYCRR 201-3.2(c)(6).

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-14: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4330, NSPS Subpart KKKK

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Facility DEC ID: 7311500204

Item 1-14.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU003

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 1-14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The emission limit for Sulfur Dioxide from a stationary combustion turbine is 0.060 lb SO₂/MMBtu heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

Upper Permit Limit: 0.06 pounds per million Btus

Reference Test Method: EPA Method 7E or Method 20

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTIONAveraging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-15: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 40CFR 60.4333, NSPS Subpart KKKK****Item 1-15.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU003

Item 1-15.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must operate and maintain your stationary combustion turbine, air pollution control equipment, and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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Facility DEC ID: 7311500204

Condition 1-16: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4340(a), NSPS Subpart KKKK

Item 1-16.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU003

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

Item 1-16.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx emissions from the turbine are limited to either 25 ppm at 15% O₂ or 690 ng/J of useful output. The facility must perform annual performance tests in accordance with § 60.4400 to demonstrate continuous compliance. If the NOx emission result from the performance test is less than or equal to 75 percent of the NOx emission limit for the turbine, the facility may reduce the frequency of subsequent performance tests to once every two years (no more than 26 calendar months following the previous performance test). If the results of any subsequent performance test exceed 75 percent of the NOx emissions limit for the turbine, the facility must resume annual performance tests.

Upper Permit Limit: 25 parts per million by volume (dry,
 corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, App. A, Method 7,7E or 19

Monitoring Frequency: ANNUALLY

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 1-17: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4365(a), NSPS Subpart KKKK

Item 1-17.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU003

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 1-17.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility may elect not to monitor the total sulfur content of the fuel combusted in the turbine if the fuel is demonstrated not to exceed potential sulfur emissions of 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input.

The facility must use the fuel quality characteristics in a current, valid purchase contract, tariff sheet, or transportation contract for the fuel, specifying that:

- 1) The total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet, or
- 2) Has potential sulfur emissions of less than 26 ng SO₂/J (0.060 lb SO₂/MMBtu) heat input.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

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 1-18: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4375(b), NSPS Subpart KKKK

Item 1-18.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU003

Regulated Contaminant(s):

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

Item 1-18.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

For each affected unit that performs annual performance tests in accordance with §60.4340(a), the facility must submit a written report of the results of each performance test before the close of business on the 60th day following the completion of the performance test.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-19: NO_x testing requirements
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4400, NSPS Subpart KKKK

Item 1-19.1:

This Condition applies to Emission Unit: U-COGEN Emission Point: SU003

Item 1-19.2: The testing requirements for emissions of NO_x are specified in 40 CFR 60.4400 and must be implemented for this facility.

Condition 1-20: Testing requirements for sulfur dioxide
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.4415, NSPS Subpart KKKK

Item 1-20.1:

This Condition applies to Emission Unit: U-COGEN Emission Point: SU003

Item 1-20.2: The testing requirements for sulfur dioxide emissions are specified in 40 CFR 60.4415 and must be implemented for this facility.

Condition 1-21: Compliance Certification
Effective for entire length of Permit

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

Item 1-21.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU003
Process: TBI

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

Item 1-21.2:

Compliance Certification shall include the following monitoring:

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For combined-cycle combustion turbines, the owner or operator has submitted a case-by-case NO_x RACT analysis pursuant to 6 NYCRR 227-2.4(e)(2), which has been reviewed and approved by the Department. The average NO_x emission rate shall not exceed 0.056 lb/MMBtu, calculated over a 12-month rolling period including all turbine operating hours under varying temperature conditions.

Compliance shall be demonstrated using periodic emission testing and operating data consistent with 40 CFR 60 Subpart KKKK.

Upper Permit Limit: 0.056 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 19

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 12-month rolling average

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-22: Compliance Certification
Effective for entire length of Permit

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

Item 1-22.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN
Process: TBI

Emission Point: SU003

Regulated Contaminant(s):

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

Item 1-22.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For combined-cycle combustion turbines, the owner or operator has submitted a case-by-case NO_x RACT analysis pursuant to 6 NYCRR 227-2.4(e)(2), which has been reviewed and approved by the Department. RACT for this source, when the outside temperature is less than zero degrees Fahrenheit, is 0.167 lb/MMBtu.

Compliance shall be demonstrated annually or biennially, as required by 40 CFR 60 Subpart KKKK.

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Upper Permit Limit: 0.167 pounds per million Btus
Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 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 1-23: Compliance Certification
Effective for entire length of Permit

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

Item 1-23.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU003
Process: TB1

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

Item 1-23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For combined-cycle combustion turbines, the owner or operator has submitted a case-by-case NO_x RACT analysis pursuant to 6 NYCRR 227-2.4(e)(2), which has been reviewed and approved by the Department. RACT for this source, when the outside ambient temperature is greater than or equal to zero degrees Fahrenheit, is 0.036 lb/MMBtu.

Compliance shall be demonstrated annually or biennially, as required by 40 CFR 60 Subpart KKKK.

Upper Permit Limit: 0.036 pounds per million Btus
Reference Test Method: 40 CFR Part 60, App. A, Method 7, 7E, or 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 1-24: Compliance Certification
Effective for entire length of Permit

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2)**Item 1-24.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU003
Process: TB2

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

Item 1-24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For combined-cycle combustion turbines, the owner or operator has submitted a case-by-case NO_x RACT analysis pursuant to 6 NYCRR 227-2.4(e)(2), which has been reviewed and approved by the Department.

The average NO_x emission rate shall not exceed 0.063 lb/MMBtu, calculated over a 12-month rolling period including all turbine operating hours under varying temperature conditions.

Compliance shall be demonstrated using periodic emission testing and operating data consistent with 40 CFR 60 Subpart KKKK.

Upper Permit Limit: 0.063 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 19

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 12-month rolling average

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-25: Compliance Certification
Effective for entire length of Permit**Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2)****Item 1-25.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU003
Process: TB2

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

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Item 1-25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For combined-cycle combustion turbines, the owner or operator has submitted a case-by-case NO_x RACT analysis pursuant to 6 NYCRR 227-2.4(e)(2), which has been reviewed and approved by the Department. RACT for this source, when the outside temperature is less than zero degrees Fahrenheit, is 0.137 lb/MMBtu.

Compliance shall be demonstrated annually or biennially, as required by 40 CFR 60 Subpart KKKK.

Upper Permit Limit: 0.137 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 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 1-26: Compliance Certification
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (2)****Item 1-26.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU003

Process: TB2

Regulated Contaminant(s):

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

Item 1-26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

For combined-cycle combustion turbines, the owner or operator has submitted a case-by-case NO_x RACT analysis pursuant to 6 NYCRR 227-2.4(e)(2), which has been reviewed and approved by the Department. RACT for this source, when the outside temperature is greater than or equal to zero degrees Fahrenheit, is 0.051 lb/MMBtu.

Compliance shall be demonstrated annually or biennially, as required by 40 CFR 60 Subpart KKKK.

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Upper Permit Limit: 0.051 pounds per million Btus
Reference Test Method: 40 CFR Part 60, App. A, Method 7, 7E or 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 1-27: Compliance Certification
Effective for entire length of Permit

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

Item 1-27.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU008

Item 1-27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Condition 1-28: Compliance Certification
Effective for entire length of Permit

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

Item 1-28.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN Emission Point: SU008
Process: B8G

Item 1-28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected

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Facility DEC ID: 7311500204

facility for a period of two years following the date of
such record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-29: Compliance Certification
Effective for entire length of Permit

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

Item 1-29.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU008

Process: B8G

Item 1-29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-30: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1)

Item 1-30.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU008

Process: B8G

Emission Source: BOIL8

Regulated Contaminant(s):

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

Item 1-30.2:

Compliance Certification shall include the following monitoring:

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator shall not cause or allow the emissions of NO_x from the Boiler to be in excess of 0.05 lb/MMBtu when combusting natural gas. Emission testing shall be conducted no later than 60 days after achieving the maximum production rate at which the affected unit will be operated, but no later than 180 days after initial startup and at any other time when requested by the EPA or the Department.

The owner or operator shall submit a testing protocol to the Department for approval a minimum 30 days prior to any stack testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the Department.

The owner or operator must follow the procedure set forth in 6 NYCRR part 202 and use Method 7, 7E, or equivalent, and Method 19 from the 40 CFR part 60, Appendix A.

The owner or operator shall submit to the Department a compliance test report containing the results of the emission test to the Department for approval no later than 60 days after completion of the emission test.

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

Upper Permit Limit: 0.05 pounds per million Btus

Reference Test Method: 40 CFR part 60, App A, Method 7, 7E or 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 1-31: Compliance Certification
Effective for entire length of Permit

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

Item 1-31.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-COGEN

Emission Point: SU008

Process: B8G

Emission Source: BOIL8

Item 1-31.2:

Compliance Certification shall include the following monitoring:

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.
- (3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-32: Compliance Certification
Effective for entire length of Permit

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

Item 1-32.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-S0034

Regulated Contaminant(s):

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

Item 1-32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

This condition applies to large boilers as defined under 6 NYCRR Part 227-2.3(b). The owner or operator shall not cause or allow the emissions of NO_x from emission sources BOIL3, BOIL4, to be in excess of 0.15lb/mmbtu when combusting natural gas. At least once per permit term, the owner or operator shall conduct NO_x emission testing while each boiler operates on natural gas, and at any other time upon request from the Department.

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

The owner or operator shall submit a testing protocol to the Department for approval at least 30 days prior to any stack testing.

The owner or operator will maintain records on-site for a minimum of 5 years.

On a semi-annual basis, as part of the required semi-annual monitoring report, the owner or operator shall submit to the Department a statement whether testing has been conducted and if so, the results of such tests.

Upper Permit Limit: 0.15 pounds per million Btus

Reference Test Method: EPA Method 7

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-33: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 211.2

Item 1-33.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-S0034

Emission Point: SU001

Item 1-33.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Except as permitted by a specific part of Title 6 of the NYCRR, 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.

Operators of air contamination sources that are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

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Facility DEC ID: 7311500204

1) Observe the stack(s) or vent(s) once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-34: Compliance Certification
Effective for entire length of Permit

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Applicable Federal Requirement: 6 NYCRR 227-1.4 (b) (1)**Item 1-34.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-S0034

Emission Point: SU001

Item 1-34.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

DEC regulations generally require any person who owns a stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour (sum of the maximum heat input capacity of all units which are operated simultaneously and are connected to a common stack), to install and operate a device to continuously monitor opacity. However, 6 NYCRR 227-1.4(b) allows the DEC to waive the requirement and set forth alternative monitoring requirements if the installation of a continuous stack monitoring system would impose an extreme economic burden on the source owner. Given that the boilers burn primarily natural gas, the DEC, on the effective date of this permit, is only requiring the use of continuous opacity monitors if the boilers begin to fire oil on a routine basis.

The following apply to the owners or operators of Boilers 3, 4 (Emission Sources Boil3, Boil4).

1. Pursuant to 6 NYCRR 227-1.4(b), beginning on the effective date of this permit, the owner or operator is not required to monitor opacity with a continuous opacity monitor, except as provided in items 2 below.
2. If the owner or operator combusts oil in excess of 1450 hours per 12 month rolling period in Boiler 3 and Boiler 4 combined, then the owner or operator shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity.
3. If a continuous opacity monitor is installed, from that point on it shall be operated and maintained; however, the opacity monitor(s) are not required to be operated during those periods when only natural gas is

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combusted.

4. Upon installation and operation of a continuous opacity monitor, the owner or operator shall submit to the DEC, on a quarterly basis,

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

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

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

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

(5) the total number of exceedances and the duration of exceedances expressed as a percentage of the total time in which the COMS are required to record data; and

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

Such reports shall be submitted no later than 60 days after the end of each calendar quarter.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-35: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 211.2

Item 1-35.1:

The Compliance Certification activity will be performed for:

Permit ID: 7-3115-00204/00007

Facility DEC ID: 7311500204

Emission Unit: U-S0067

Emission Point: SU002

Item 1-35.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Except as permitted by a specific part of Title 6 of the NYCRR, 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.

Operators of air contamination sources that are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack(s) or vent(s) once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

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

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

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The

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distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-36: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-1.4 (b) (1)

Item 1-36.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-S0067

Emission Point: SU002

Item 1-36.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

DEC regulations generally require any person who owns a stationary combustion installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour (sum of the maximum heat input capacity of all units which are operated simultaneously and are connected to a common stack), to install and operate a device to continuously monitor opacity. However, 6 NYCRR 227-1.4(b) allows the DEC to waive the requirement and set forth alternative monitoring requirements if the installation of a continuous stack monitoring system would impose an extreme economic burden on the source owner. Given that the boilers burn primarily natural gas, the DEC, on the effective date of this permit, is only requiring the use of continuous opacity monitors if the boilers begin to fire oil on a routine basis.

The following apply to the owners or operators of Boilers

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6 and 7 (Emission Sources Boil6 and Boil7).

1. Pursuant to 6 NYCRR 227-1.4(b), beginning on the effective date of this permit, the owner or operator is not required to monitor opacity with a continuous opacity monitor, except as provided in items 2 below.

2. If the owner or operator combusts oil in excess of 1450 hours per 12 month rolling period in Boiler 6 and Boiler 7 combined, then the owner or operator shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity.

3. If a continuous opacity monitor is installed, from that point on it shall be operated and maintained; however, the opacity monitor(s) are not required to be operated during those periods when only natural gas is combusted.

4. Upon installation and operation of a continuous opacity monitor, the owner or operator shall submit to the DEC, on a quarterly basis,

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

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

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

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

(5) the total number of exceedances and the duration of exceedances expressed as a percentage of the total time in which the COMS are required to record data; and

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

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Such reports shall be submitted no later than 60 days
after the end of each calendar quarter.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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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 41: Contaminant List**Effective between the dates of 06/22/2021 and Permit Expiration Date****Applicable State Requirement: ECL 19-0301****Item 41.1:**

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

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

CAS No: 0NY075-00-0

Name: PARTICULATES

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY750-00-0

Name: CARBON DIOXIDE EQUIVALENTS

Condition 1-37: Malfunctions and Start-up/Shutdown Activities**Effective for entire length of Permit****Applicable State Requirement: 6 NYCRR 201-1.4****Replaces Condition(s) 42**

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Item 1-37.1:

(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 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 42: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 06/22/2021 and Permit Expiration Date

Applicable State Requirement:

Replaced by Condition(s) 1-37

Item 42.1:

(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.

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(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 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 1-38: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 211.1

Item 1-38.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 1-38.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility owner or operator shall establish a complaint response plan to manage complaints related to air emissions from the facility. At a minimum, the plan shall include procedures to ensure that:

1. A complaint phone line is available 24 hours a day, 7

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days a week.

2. Facility staff promptly investigate the possible causes of the complaint and promptly take action to abate any circumstances found to be the cause of the complaint.

3. The complaint, the results of investigation, and any corrective actions taken are recorded. Such records shall include the date, time, and staff person responsible.

4. Records are reported at a regular frequency acceptable to the Department.

5. Records are reported in a format acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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