

Facility DEC ID: 3334600011

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Industrial SPDES - Surface Discharge
Permit ID: 3-3346-00011/00002
Effective Date: Expiration Date:

Permit Type: Air Title V Facility
Permit ID: 3-3346-00011/00017
Mod 0 Effective Date: 04/09/2020 Expiration Date: 04/08/2025
Mod 1 Effective Date: Expiration Date:

Permit Type: Title IV (Phase II Acid Rain)
Permit ID: 3-3346-00011/00027
Effective Date: Expiration Date:

Permit Issued To: DANKAMMER ENERGY LLC
994 RIVER RD
NEWBURGH, NY 12550

Contact: JOHN MCGAHAN
994 RIVER RD
NEWBURGH, NY 12550

Facility: DANKAMMER GENERATING STATION
994 RIVER RD
NEWBURGH, NY 12550

Contact: JOHN MCGAHAN
994 RIVER RD
NEWBURGH, NY 12550

Description:
Danskammer Energy, LLC (Danskammer Energy) is proposing to construct an approximately 536-megawatt (MW) primarily natural gas fired 1-on-1 combined cycle power facility (Danskammer Energy Center) on land at the site of its existing Danskammer Generating Station in the Town of Newburgh, Orange County, New York. The Station's existing generators will be retired once the combined cycle plant is complete. The proposed Danskammer Energy Center will result in a new modern energy center through installation of state-of-the-art power generation equipment. The proposed Project (combustion turbine) will be primarily fueled by natural gas with ultra-low sulfur diesel (ULSD) as a backup fuel for up to the full load equivalent of 720 hours per year.

The Danskammer Energy Center will consist of one (1) Mitsubishi M501JAC combustion turbine at the proposed project site. Hot exhaust gases from the combustion turbine will flow into one (1) heat recovery steam generator (HRSG). The HRSG will be equipped with a natural gas fired duct burner. The HRSG will produce steam to be used in the steam turbine. Upon

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leaving the HRSG, the turbine exhaust gases will be directed to one (1) exhaust stack. Other ancillary combustion equipment at the proposed project includes a natural gas fired auxiliary boiler, emergency diesel fire pumps, and an emergency diesel generator. Danskammer Energy is proposing to utilize pipeline quality natural gas as the primary fuel for the combustion turbine and duct burner with ULSD (with a maximum sulfur content of 0.0015% by weight) as a backup fuel for up to 720 full load hours per year.

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: MICHAEL T HIGGINS
 NYSDEC - HEADQUARTERS
 625 BROADWAY
 ALBANY, NY 12233-1750

Authorized Signature: _____ Date: ____ / ____ / ____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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DEC GENERAL CONDITIONS

****** General Provisions ******

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

Permits are transferrable with the approval of the department unless specifically prohibited by

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the statute, regulation or another permit condition. Applications for permit transfer should be submitted prior to actual transfer of ownership.

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

Item 4.1:

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

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

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

Condition 1-1: Site-specific greenhouse gas mitigation plan
Applicable State Requirement: ECL 75-0107 (1)

Item 1-1.1:

Within 120 days of the issuance of this permit, the facility owner or operator shall prepare, and submit to the Department for approval, a site-specific greenhouse gas mitigation plan in accordance with Section 7(2) of the Climate Leadership and Community Protection Act, Chapter 106 of the Laws of 2019. At a minimum, the plan shall propose an acceptable mitigation strategy or strategies for reducing the greenhouse gas emissions generated by and associated with the facility’s operations.

Such strategies may include, but are not limited to: (1) limitations on the amount of fossil fuel fired at the facility (measured on a 12-month rolling total basis); (2) limitations on the facility’s fuel load equivalent hours of operation (measured on a 12-month rolling total basis); (3) a protocol for future alternative fuel testing; (4) a specific schedule for the future transition to alternative fuels; and/or (5) a legally enforceable commitment to cease operations at the facility by a date certain.

For the purposes of this requirement, greenhouse gas emissions include direct and upstream emissions associated with the operation of all fossil fuel fired stationary emission sources at the facility on a potential to emit basis. The plan shall also propose a schedule for the implementation of each mitigation measure identified as feasible in the plan.

The facility owner or operator shall update the plan with each subsequent application for renewal of this permit, or upon request by the Department, whichever is first.

Failure to provide an approvable site-specific greenhouse gas mitigation plan shall be grounds for enforcement action and/or the suspension or revocation of this permit as described in 6 NYCRR Section 201-1.12 and 6 NYCRR Section 621.13.

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**Condition 1-2: Submission of application for permit modification or renewal
-REGION 3**

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Replaces Condition(s) 5

Item 1-2.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 3 Headquarters
Division of Environmental Permits
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3054

Condition 5: Submission of application for permit modification or renewal-REGION 3

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Replaced by Condition(s) 1-2

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 3 Headquarters
Division of Environmental Permits
21 South Putt Corners Road
New Paltz, NY 12561-1696
(845) 256-3054

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ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: DANKAMMER ENERGY LLC
994 RIVER RD
NEWBURGH, NY 12550

Facility: DANKAMMER GENERATING STATION
994 RIVER RD
NEWBURGH, NY 12550

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

Permit Effective Date:

Permit Expiration Date:

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- 44 1-43 40 CFR Part 64: Compliance Certification
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- 49 46 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

- EU=U-DEC01,EP=DEC01,Proc=003,ES=TURB1**
- 53 1-46 40CFR 60, NSPS Subpart Kb: Subpart Kb - VOC Tanks constructed after July 23, 1984

- EU=U-DEC02,EP=DEC02,Proc=004,ES=AUXB1**
- 53 1-47 40CFR 60.40c, NSPS Subpart Dc: Applicability of this Subpart to this emission source

- EU=U-DECEG**
- 54 1-48 40CFR 63, Subpart A: MACT General Provisions - emission unit level

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- 60 1-51 6 NYCRR 242-8.5: Compliance Demonstration
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- 62 1-52 6 NYCRR 251.3 (a) (1): Compliance Demonstration
- 62 1-53 6 NYCRR 251.3 (b): Compliance Demonstration

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 3/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

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by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Item 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;

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- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item 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.

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

Item 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: Compliance Certification
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 202-2.1****Item 1-1.1:**

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The Compliance Certification activity will be performed for the Facility.

Item 1-1.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

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

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

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

**Condition 1-2: Maintenance of Equipment
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 200.7

Replaces Condition(s) 10

Item 1-2.1:

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

**Condition 10: Maintenance of Equipment
Effective between the dates of 04/09/2020 and Permit Expiration Date**

Applicable Federal Requirement:

Replaced by Condition(s) 1-2

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Item 10.1:

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

**Condition 1-3: Compliance Certification
Effective for entire length of Permit**

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

Item 1-3.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-3.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

AS PROOF OF EXEMPT ELIGIBILITY FOR THE EMERGENCY GENERATORS, THE FACILITY MUST MAINTAIN MONTHLY RECORDS WHICH DEMONSTRATE THAT EACH ENGINE IS OPERATED LESS THAN 500 HOURS PER YEAR, ON A 12-MONTH ROLLING TOTAL BASIS.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500.0 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 17: Off Permit Changes
Effective between the dates of 04/09/2020 and Permit Expiration Date**

Applicable Federal Requirement:

Expired by Mod 1

Item 17.1:

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

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seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

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

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

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

**Condition 1-4: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 200.7

Item 1-4.1:

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

Emission Unit: U-DEC01 Process: 001	Emission Point: DEC01 Emission Source: TURB1
Emission Unit: U-DEC01 Process: 002	Emission Point: DEC01 Emission Source: TURB1
Emission Unit: U-DEC01 Process: 003	Emission Point: DEC01 Emission Source: TURB1
Regulated Contaminant(s): CAS No: 007664-41-7	AMMONIA

Item 1-4.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility will maintain a 5.0 ppmvd (corrected to 15% O2) ammonia emission limit when firing natural gas from the combustion turbine without operation of the duct burner. This limit will also apply when firing ULSD. The emission limit applies at all normal operating loads excluding periods of start up and shutdown. The facility will use CEMs to monitor ammonia emissions from the

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combustion turbine. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Manufacturer Name/Model Number: Continuous Emission Monitor
Parameter Monitored: CONCENTRATION
Upper Permit Limit: 5.0 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: 40 CFR 75 or 40 CFR 60, Appendices A/B/F
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR BLOCK AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 21: Emission Unit Definition
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 21.1(From Mod 1):

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

Emission Unit: U-DEC01

Emission Unit Description:

Emission Unit U-DEC01 represents a Mitsubishi 501JAC combustion turbine rated at 3,302 mmBtu/hr when firing natural gas and 3,315 mmBtu/hr when firing ULSD at 0 degrees F and 100% load. The HRSG will be equipped with a natural gas fired duct burner rated at 744 mmBtu/hr.

Item 21.2(From Mod 1):

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

Emission Unit: U-DEC02

Emission Unit Description:

Danskammer Energy is proposing to install and operate one (1) auxiliary boiler. The auxiliary boiler will have a maximum heat input of 96.0 mmBtu/hr (HHV) and will combust natural gas. Auxiliary boiler operation will not exceed the equivalent of 4,800 hours per year of full load operation and be permitted to operate simultaneously with the combustion turbines. The proposed boiler will be equipped with low-NO_x burners to control NO_x emissions. Low sulfur fuels will minimize the formation of PM/PM-10/PM-2.5 and SO₂. Good combustion practices and design will minimize CO and VOC emissions.

Building(s): AuxBoil

Item 21.3(From Mod 1):

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

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Emission Unit: U-DECEG

Emission Unit Description:

Emission Unit U-DECEG represents one emergency diesel generator firing ULSD. Maximum operation of the emergency diesel generator will be limited to 250 hours per year.

Item 21.4(From Mod 1):

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

Emission Unit: U-DECFP

Emission Unit Description:

Emission Unit U-DECFP represents one emergency fire pump firing ULSD. Maximum operation of the fire pump will be limited to 250 hours per year.

Item 21.5(From Mod 0):

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

Emission Unit: U-D0001

Emission Unit Description:

Danskammer Unit 1 is a 65 MW, tangentially-fired steam generating boiler capable of firing No. 6 fuel oil, biodiesel, and natural gas. The boiler has a maximum heat rating of 900 mmBtu/hr. This unit employs low excess air and combustion air manipulation as its NO_x emissions control technique.

Building(s): D1

Item 21.6(From Mod 0):

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

Emission Unit: U-D0002

Emission Unit Description:

Danskammer Unit 2 is a 65 MW, tangentially-fired steam generating boiler capable of firing No. 6 fuel oil, biodiesel, and natural gas. The boiler has a maximum heat rating of 900 mmBtu/hr. This unit employs low excess air and combustion air manipulation as its NO_x emissions control technique.

Building(s): D2

Item 21.7(From Mod 0):

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

Emission Unit: U-D0003

Emission Unit Description:

Danskammer Unit 3 is a 135 MW, dry-bottom, tangentially fired steam generating boiler capable of firing natural gas and torrefied wood. The boiler has a maximum heat input rating of 1,167 mmBtu/hr when firing natural gas. The unit employs separated over-fire air, burners-out-of-service, and low NO_x burners as its NO_x emissions control technique.

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Building(s): D3/D4

Item 21.8(From Mod 0):

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

Emission Unit: U-D0004

Emission Unit Description:

Danskammer Unit 4 is a 235 MW, dry-bottom, tangentially-fired steam generating boiler capable of firing natural gas. The boiler has a maximum heat input rating of 2,397 mmBtu/hr when firing natural gas. The unit employs seperated over-fire air, burners-out-of-service, and low NOx burners as its NOx emissions control technique.

Building(s): D3/D4

**Condition 1-5: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 1-5.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operators shall monitor and record all occurrences of start-up and shutdown of the combustion turbines. This data shall consist of the duration of each start-up and shutdown event and the total pounds of emissions of NOx, CO, and NH3 as monitored with a CEM during the event. After the owner or operator has recorded 15 start-ups and 15 shutdowns, they must develop start-up and shutdown limits based on the recorded emissions data. Within 60 days of recording the 15th start-up and shutdown, the owner or operator must submit the proposed limits to the Department for approval as a permit modification.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-6: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Item 1-6.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must not exceed an annual total of 10 cold oil-fired starts on the main combustion generator turbine. The facility owner and/or operator shall record these events and notify the Department if these limits are exceeded. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

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 1-7: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 1-7.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must not exceed an annual total of 10 cold gas-fired starts on the main combustion generator turbine. The facility owner and/or operator shall record these events and notify the Department if these limits are exceeded. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

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).

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Facility DEC ID: 3334600011

Condition 1-8: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 1-8.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-8.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility must notify the Department when each Emission Unit (U-D0001, U-D0002, U-D0003 and U-D0004) from the previous Air Title V permit has ceased operation. This notification should consist of a formal letter stating which emission unit is no longer in operation and the exact shutdown date. All records associated with the shutdown of this equipment must be kept at the facility (or another Department approved location) for a minimum of five years from the date of record.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-9: Operational Flexibility
Effective for entire length of Permit

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

Item 1-9.1:

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

Condition 1-10: Emission Testing, Sampling and Analytical Determinations
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 202-1

Item 1-10.1:

The provisions of 6NYCRR Subpart 202-1 apply to this facility.

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**Condition 1-11: Emission statement methods and procedures
Effective for entire length of Permit****Applicable Federal Requirement: 6 NYCRR 202-2.4****Item 1-11.1:**

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

(a) Emissions estimates shall be based on the owner's or operator's use of the following methods. For each instance, the owner or operator must utilize one of the following emissions estimation methods to represent actual emissions emitted during the calendar year.

- (1) stack samples or other emission measurements;
- (2) material balance using knowledge of the process;
- (3) national emission factors;
- (4) best engineering judgement (including manufacturers' guarantees);
- (5) state or local agency emission factors approved by EPA;

(6) standard EPA emission factors (SCC emission factor). The Department shall assign the SCC to a particular facility. A source owner may request the Department to change an assigned SCC;

- (7) other published emission factors (please provide); and
- (8) other (please specify).

(NOTE: Emissions testing is generally not required for determining emissions to comply with this regulation. When monitoring or testing data is available and has been validated and verified by the Department and is still applicable to the operations during the reporting period, this monitoring or testing data should be used to calculate emissions for this reporting requirement. In the absence of validated monitoring or testing data, the facility should use the emissions estimation method which would yield accurate emissions data.)

(b) If a source owner or operator is required to use a specific monitoring method to demonstrate compliance with other applicable requirements, the Department may require that the emission estimates for the corresponding processes be based on information obtained from that monitoring method. The Department may reject the use of a proposed method for a particular process if it can be demonstrated that the method does not represent actual emissions.

(c) Any owner or operator of a reportable facility shall transmit the emission statement to the Department on forms acceptable to the Department. With the prior approval of the Department, an emission statement which meets the requirements of section 202-2.4 may be submitted on computer diskette or transmitted electronically in lieu of a written submission.

(d) The owner or operator may request that information submitted in emission statements be

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designated as a trade secret, in accordance with Part 616 of this Title. Data elements not considered to be confidential include: emissions, estimated emissions method, and the SCC. The Department will evaluate claims for confidentiality in accordance with Part 616 of this Title.

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

Applicable Federal Requirement: 6 NYCRR 211.2

Item 1-12.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-12.2:

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

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(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: 57 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTIONAveraging Method: ONE CONTINUOUS 6-MINUTE PERIOD PER
HOUR

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

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

Item 1-13.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-13.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

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

Note - Process sources and incinerators must comply with

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the above requirements on or after July 1, 2023.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 24: Compliance Certification
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 1

Item 24.1:

The Compliance Certification activity will be performed for the Facility.

Item 24.2:

Compliance Certification shall include the following monitoring:

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

Owners and/or operators of any stationary combustion installation that fires residual oil with a total heat input greater than 250 million Btu per hour* are limited to the purchase of residual oil with a sulfur content of 0.50% sulfur on or after July 1, 2014 and to the firing of residual oil with a sulfur content of 0.50% on or after July 1, 2016.

* Please note that if two or more emission sources are exhausted through a common emission point, the total heat input for such an emission point is either the sum of the maximum operating heat inputs of all emission sources which are operated simultaneously and exhausted through the common emission point, or the maximum operating heat input of any individual emission source operated independently and connected to the common emission point, whichever is greater.

The facility must maintain any records on-site for a minimum of five years.

Manufacturer Name/Model Number: SO2 CEM
Parameter Monitored: SULFUR DIOXIDE
Upper Permit Limit: 0.50 percent by weight

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Facility DEC ID: 3334600011

Monitoring Frequency: CONTINUOUS
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.
The initial report is due 7/30/2020.
Subsequent reports are due every 6 calendar month(s).

Condition 25: Compliance Certification
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 1

Item 25.1:

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

Emission Unit: U-D0001

Emission Unit: U-D0002

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

Item 25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility shall not cause or allow particulate emissions into the outdoor atmosphere in excess of 0.10 lb/mmBtu heat input from any stationary combustion installation with a maximum heat input capacity exceeding 250 mmBtu/hr using oil. The facility shall perform emission testing on Unit 1 or 2 if requested by the Department.

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 26: Compliance Certification
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 1

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility owner and/or operator of a combustion installation shall not emit greater than 20 percent opacity except for one six minute period per hour, not to exceed 27 percent, based upon the six minute average utilizing a continuous opacity monitor (COM).

Manufacturer Name/Model Number: CEM

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: EPA Approved

Monitoring Frequency: CONTINUOUS

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

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

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

Item 1-14.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 1-14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The owner or operator of a stationary combustion installation shall submit a compliance test protocol to the Department for approval at least 30 days prior to conducting compliance testing of the 0.1 lb/mmBtu particulate matter standard. The owner or operator shall submit the results to the Department for approval within 60 days of the conclusion of compliance testing. Testing shall be conducted once per term of the permit. All records associated with the testing shall be maintained on

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site or at a Department approved alternative location for a minimum of five years.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.1 pounds per million Btus
Reference Test Method: 40 CFR 60, Appendix A, Method 5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 6 calendar month(s).

Condition 1-15: Compliance Certification
Effective for entire length of Permit

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

Item 1-15.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-15.2:

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 percent, based upon the six minute average utilizing a continuous opacity monitor (COM) and maintain a record of all measurements made by the COM and the hours of COM downtime. All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 27: Compliance Certification
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:

Expired by Mod 1

Item 27.1:

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Facility DEC ID: 3334600011

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of Units 1, 2, 3, and 4 shall submit an accurate excess opacity emissions and continuous opacity monitoring system (COMS) report to the Department for each calendar year quarter. All reports shall be certified by a responsible corporate official as true, accurate and complete and postmarked by the 60th day following the end of each calendar quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

(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 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.

Item (6) includes the Opacity Incident Report (OIR) which shall be prepared for each excess opacity event. Each OIR shall include a description of the sequence of events, an explanation of the cause of the event, a description of

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the corrective actions taken and any appropriate preventive measures.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Applicable Federal Requirement: 6 NYCRR 227-1.5 (b) (2)

Item 1-16.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-16.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator required to operate a COM shall submit an accurate excess emissions and monitoring system performance report to the Department for each calendar year quarter. All reports shall be certified by a responsible official as true, accurate and complete and post marked by the 30th day following the end of each calendar quarter. The quarterly excess emissions report shall be submitted in a form acceptable to the Department and shall include the following minimum information:

(i) 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;

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

(iii) identification of all periods of COM down time, including the date, time and duration of each inoperable period, and the cause and corrective action for each COM down time period;

(iv) the total time in which the COM is required to record data during the reporting period; and

(v) the total number of exceedances and the duration of exceedances expressed as a percentage of the total time in which the COM is required to record data.

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All records generated by the permittee must be maintained at the facility or at an alternative location approved by the Department for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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

Applicable Federal Requirement: 6 NYCRR Subpart 231-6

Item 1-17.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01	Emission Point: DEC01
Process: 001	Emission Source: TURB1

Emission Unit: U-DEC01	Emission Point: DEC01
Process: 002	Emission Source: TURB1

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

Item 1-17.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

2.0 ppmvd (corrected to 15% O₂) NO_x emission limit for the combustion turbine firing natural gas and with or without operation of the natural gas fired duct burner. This limit applies at all normal operating loads and excludes periods of start up and shutdown. A CEMs will monitor NO_x emissions. This emission limit represents LAER. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: CONCENTRATION

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

Reference Test Method: 40 CFR Part 75

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

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

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

Applicable Federal Requirement: 6 NYCRR 231-6.5

Item 1-18.1:

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

Emission Unit: U-DECEG	Emission Point: DECEG
Process: 005	Emission Source: DECEG

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

Item 1-18.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility will operate an emergency generator engine that will be certified to meet the federal emission standards under 40 CFR 60 Subpart IIII for the current model years. Thus, the engine will maintain a NO_x + HC emission rate of 4.8 g/hp-hr and a VOC emission rate limit of 0.28 g/hp-hr in accordance with 40 CFR 60.4202(b)(2) and 40 CFR 89.112(a), Table 1. Compliance with these federal limits is also considered LAER. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.28 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-19: Compliance Certification
Effective for entire length of Permit

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-19.1:

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

Emission Unit: U-DEC02 Emission Point: DEC02
Process: 004 Emission Source: AUXB1

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

Item 1-19.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.0017 lb/mmBtu VOC emission limit from the auxiliary boiler during natural gas firing. Stack testing will be used to demonstrate compliance with the LAER emission limit. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0017 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 25A, Method 18

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-20: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-20.1:

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

Emission Unit: U-DEC02 Emission Point: DEC02
Process: 004 Emission Source: AUXB1

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

Item 1-20.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Monitoring Description:

The facility will maintain a 0.0086 lb/mmBtu NOx emission limit from the auxiliary boiler during natural gas firing. Stack testing will be used to demonstrate compliance with the LAER emission limit. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0086 pounds per million Btus

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

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Applicable Federal Requirement: 6 NYCRR 231-6.5

Item 1-21.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DECFP

Emission Point: DECFP

Process: 006

Emission Source: DECFP

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 1-21.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility will operate an emergency fire pump engine that will be certified to meet the federal emission standards under 40 CFR 60 Subpart IIII for the current model years. Thus, the engine will maintain a NOx + HC emission rate of 3.0 g/hp-hr and a VOC emission rate limit of 0.12 g/hp-hr. Compliance with these federal limits is also considered LAER. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Upper Permit Limit: 0.12 grams per brake horsepower-hour
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Applicable Federal Requirement: 6 NYCRR 231-6.5

Item 1-22.1:

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

Emission Unit: U-DEC01	Emission Point: DEC01
Process: 002	Emission Source: TURB1

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

Item 1-22.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 1.6 ppmvd (dry, corrected to 15% O₂) VOC emission limit from the combustion turbine during natural gas firing with operation of the duct burner. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. Stack testing will be used to demonstrate compliance with the LAER emission limit. The facility must also maintain compliance with the CO limit to comply with the VOC emissions limit. If the CO CEM shows an exceedance, VOC emissions are also determined to be in exceedance at that time. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 1.6 parts per million by volume
 (dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 60, Appendix A, Method 25A

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-23: Compliance Certification
Effective for entire length of Permit

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-23.1:

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

Emission Unit: U-DECFP Emission Point: DECFP
Process: 006 Emission Source: DECFP

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

Item 1-23.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility will operate an emergency fire pump engine that will be certified to meet the federal emission standards under 40 CFR 60 Subpart IIII for the current model years. Thus, the engine will maintain a NOx + HC emission rate of 3.0 g/hp-hr. Compliance with these federal limits is also considered LAER. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 3.0 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 1-24: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-24.1:

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

Emission Unit: U-DEC01 Emission Point: DEC01
Process: 003 Emission Source: TURB1

Regulated Contaminant(s):

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

CAS No: 0NY998-00-0 VOC

Item 1-24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility maintain a 2.0 ppmvd (dry, corrected to 15% O₂) VOC emission limit from the combustion turbine during ULSD firing. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. Stack testing will be used to demonstrate compliance with the LAER emission limit. The facility must also maintain compliance with the CO limit to comply with the VOC emissions limit. If the CO CEM shows an exceedance, VOC emissions are also determined to be in exceedance at that time. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

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

Reference Test Method: 40 CFR Part 60, Appendix A, Method 25A

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-25: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 231-6.5

Item 1-25.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01

Emission Point: DEC01

Process: 003

Emission Source: TURB1

Regulated Contaminant(s):

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

Item 1-25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility will maintain a 4.0 ppmvd (dry, corrected to 15% O₂) NO_x emission limit when firing fuel oil from the

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

combustion turbine. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. The facility will use CEMs to monitor NOx emissions from the combustion turbine. This emission limit represents LAER. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 4.0 parts per million by volume

(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 1-26: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-6.5

Item 1-26.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01

Emission Point: DEC01

Process: 001

Emission Source: TURB1

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 1-26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.7 ppmvd (dry, corrected to 15% O₂) VOC emission limit from the combustion turbine during natural gas firing without operation of the duct burner. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. Stack testing will be used to demonstrate compliance with the LAER emission limit. The facility must also maintain compliance with the CO limit to comply with the VOC emissions limit. If the CO CEM shows an exceedance, VOC emissions are also determined to be in exceedance at that time. All records used to determine compliance with the

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.7 parts per million by volume

(dry, corrected to 15% O2)

Reference Test Method: 40 CFR 60, Appendix A, Method 25A

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-27: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-6.5

Item 1-27.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DECEG

Emission Point: DECEG

Process: 005

Emission Source: DECEG

Regulated Contaminant(s):

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

Item 1-27.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility will operate an emergency generator that will be certified to meet the federal emission standards under 40 CFR 60 Subpart IIII for the current model years. Thus, the engine will maintain a NO_x + HC emission rate of 4.8 g/hp-hr in accordance with 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a), Table 1. Compliance with these federal limits is also considered LAER. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 4.8 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Applicable Federal Requirement:6 NYCRR 231-6.6

Item 1-28.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To satisfy the emission offset requirements of Part 231, the facility will be obtaining the following Emission Reduction Credits (ERCs) from the shutdown of Danskammer Generating Station Emission Units D-0001, D-0002, D-0003 and D-0004:

NO_x - 44.2 tpy

VOC - 2.1 tpy

All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years. The facility will maintain a copy of the Creation of ERCs and Use of ERCs forms for as long as the facility operates

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

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

Applicable Federal Requirement:6 NYCRR 231-8.7

Item 1-29.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01

Emission Point: DEC01

Process: 001

Emission Source: TURB1

Item 1-29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Monitoring Description:

The facility will achieve a heat rate of 6,925 Btu/KW-hr Gross (HHV) at ISO conditions during natural gas operation and at baseload without duct firing. This heat rate will be demonstrated during an initial performance test and once every five years following the initial testing.

The heat rate above is corrected to ISO conditions of:

- Ambient Dry Bulb Temperature: 59 degrees F
- Ambient Relative Humidity: 60%
- Barometric Pressure: 14.7 psia
- Fuel (natural gas) Higher Heating Value: 23,152 Btu/lb

Testing reports must be submitted to the Department no more than 30 days from the date of monitoring. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: HEAT RATE

Upper Permit Limit: 6925 BTU per kilowatt-hour

Reference Test Method: EPA Approved Method

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01 Process: 001	Emission Point: DEC01 Emission Source: TURB1
Emission Unit: U-DEC01 Process: 002	Emission Point: DEC01 Emission Source: TURB1
Emission Unit: U-DEC01 Process: 003	Emission Point: DEC01 Emission Source: TURB1
Regulated Contaminant(s): CAS No: 000630-08-0	CARBON MONOXIDE

Item 1-30.2:

Compliance Certification shall include the following monitoring:

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility will maintain a 2.0 ppmvd (corrected to 15% O₂) CO emission limit when firing natural gas and ULSD from the combustion turbine with and without operation of the duct burner. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. The facility will use CEMs to monitor CO emissions from the combustion turbine. This emission limit represents BACT. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Manufacturer Name/Model Number: Continuous Emission Monitor

Parameter Monitored: CONCENTRATION

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

Reference Test Method: 40 CFR Part 60

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 1-31: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-31.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DECFP	Emission Point: DECFP
Process: 006	Emission Source: DECFP

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

Item 1-31.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To comply with 40 CFR Part 60, Subpart IIII, the fire pump engine must meet the emission standards per Table 4 of this Subpart. The fire pump engine has a CO emission rate limit of 2.6 g/hp-hr. Compliance with this federal

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

limit is also considered BACT. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 2.6 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-32.1:

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

Emission Unit: U-DECFP

Emission Point: DECFP

Process: 006

Emission Source: DECFP

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 1-32.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

To comply with 40 CFR 60, Subpart IIII, the fire pump engine must meet the emission standards per Table 4 of this Subpart. The fire pump engine has a particulate matter limit of 0.15 g/hp-hr. Compliance with this federal limit is also considered BACT. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.15 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Applicable Federal Requirement:6 NYCRR 231-8.7

Item 1-33.1:

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

Emission Unit: U-DECEG	Emission Point: DECEG
Process: 005	Emission Source: DECEG

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

Item 1-33.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Facility will operate an emergency generator engine that will be certified to meet the federal emission standards under 40 CFR 60 Subpart IIII for the current model years. Thus, the engine will maintain a PM emission rate of 0.15 g/hp-hr in accordance with 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a), Table 1. Compliance with these federal limits is also considered BACT. Compliance will be demonstrated via certification by the vendor and adherence to vendor specified maintenance recommendations. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.15 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Applicable Federal Requirement:6 NYCRR 231-8.7

Item 1-34.1:

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

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Emission Unit: U-DEC02 Emission Point: DEC02
 Process: 004 Emission Source: AUXB1

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

Item 1-34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.037 lb/mmBtu CO emission limit from the auxiliary boiler during natural gas firing. The facility will use vendor emission guarantees and/or stack testing to ensure compliance with the BACT emission limit, as required by the Department. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.037 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 10

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-35.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01 Emission Point: DEC01
 Process: 003 Emission Source: TURB1

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

Item 1-35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.0089 lb/mmBtu PM emission limit from the combustion turbine during ULSD firing. The emission limit applies to all normal operating loads and

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

excludes periods of start and shutdown. Stack testing will be used to demonstrate compliance with the BACT emission limit. Testing methods for particulate matter will quantify the emissions of PM-10 and PM-2.5 and both filterable and condensable particulate matter will be included. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0089 pounds per million Btus

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

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

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

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC02

Emission Point: DEC02

Process: 004

Emission Source: AUXB1

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 1-36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.0074 lb/mmBtu PM emission limit from the auxiliary boiler during natural gas firing.

The facility will use vendor emission guarantees and/or stack testing to ensure compliance with the BACT emission limit for PM-10/PM-2.5, as required by the Department. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0074 pounds per million Btus

Reference Test Method: EPA Reference Method 5, 201A/201, and 202

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-37: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-8.7

Item 1-37.1:

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

Emission Unit: U-DECEG	Emission Point: DECEG
Process: 005	Emission Source: DECEG

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

Item 1-37.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility will operate an emergency generator engine that will be certified to meet the federal emission standards under 40 CAR 60 Subpart IIII for the current model years. Thus, the engine will maintain a CO emission rate of 2.6 g/hp-hr in accordance with 40 CFR 60.4202(a)(2) and 40 CFR 89.112(a), Table 1. Compliance with these federal limits is also considered BACT. Compliance will be demonstrated by the vendor and adherence to vendor specified maintenance equipment. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 2.6 grams per brake horsepower-hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-38: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 231-8.7

Item 1-38.1:

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

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Emission Unit: U-DEC01 Emission Point: DEC01
 Process: 002 Emission Source: TURB1

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

Item 1-38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.0055 lb/mmBtu PM emission limit from the combustion turbine during natural gas firing with operation of the duct burner. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. Stack testing will be used to demonstrate compliance with the BACT emission limit. Testing methods for particulate matter will quantify the emissions of PM-10 and PM-2.5 and both filterable and condensable particulate matter will be included. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0055 pounds per million Btus

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

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-39: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01 Emission Point: DEC01
 Process: 001 Emission Source: TURB1

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

Item 1-39.2:

Compliance Certification shall include the following monitoring:

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.0040 lb/mmBtu PM emission limit from the combustion turbine during natural gas firing without operation of the duct burner. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. Stack testing will be used to demonstrate compliance with the BACT emission limit. Testing methods for particulate matter will quantify the emissions of PM-10 and PM-2.5 and both filterable and condensable particulate matter will be included. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0040 pounds per million Btus

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

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-40: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-8.7

Item 1-40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-DEC01	Emission Point: DEC01
Process: 001	Emission Source: TURB1

Emission Unit: U-DEC01	Emission Point: DEC01
Process: 002	Emission Source: TURB1

Emission Unit: U-DEC01	Emission Point: DEC01
Process: 003	Emission Source: TURB1

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

Item 1-40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The facility will maintain a 0.0015 lb/mmBtu Sulfuric Acid emission limit from the combustion turbine during

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

natural gas firing with and without operation of the duct burner as well as when firing ULSD. The emission limit applies at all normal operating loads and excludes periods of start up and shutdown. Stack testing will be used to demonstrate compliance with the BACT emission limit. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: CONCENTRATION

Upper Permit Limit: 0.0015 pounds per million Btus

Reference Test Method: EPA Approved

Monitoring Frequency: Once every five years

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-41: Applicability of Subpart A General Provisions
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 1-41.1:

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 requirements.

**Condition 1-42: Applicability
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60, NSPS Subpart III

Item 1-42.1:

Facilities that have stationary compression ignition internal combustion engines must comply with applicable portions of 40 CFR 60 Subpart III.

**Condition 1-43: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40 CFR Part 64

Item 1-43.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emissions of volatile organic compounds (VOC) from the combustion turbine are subject to non-attainment new

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

source review (NSR) requirements of 6 NYCRR Subpart 231-6. Based on the NSR limits cited under 6 NYCRR Subpart 231-6 the facility is also subject to the Compliance Assurance Monitoring (CAM) requirements of 40 CFR Part 64. The emissions are controlled using an oxidation catalyst. Emissions of carbon monoxide (CO) are continuously monitored and used as a surrogate for VOC emissions.

The CAM monitoring approach is as follows:

1. The facility owner or operator must continuously monitor and record the operating load of the combustion turbine and ensure it does not fall below the applicable limit during periods of steady state operation. Steady state operation does not include periods of start-up, shutdown, fuel switching, or any other periods approved by the Department. The facility owner or operator must develop and propose changes to this limit necessary to comply with the applicable VOC limits for the combustion turbine.
2. The facility owner or operator must conduct periodic performance tests for VOC NSR emissions from the combustion turbine at various operating loads during periods of steady state operation. Steady state operation does not include periods of start-up, shutdown, fuel switching, or any other periods approved by the Department. During each test condition, the facility owner or operator must also record the output of the CO CEMs. If VOC and CO limits are shown to be in compliance with the applicable emission limit, the CO CEMs are considered to be an acceptable surrogate for VOC emissions.
3. During periods where the CO CEMs show an exceedence of the applicable limit, the facility owner or operator must also assume that there is an exceedence of the applicable VOC NSR limit. All such exceedences must be documented and submitted as part of each semiannual compliance report.
4. The facility owner or operator shall maintain records of all information necessary to demonstrate compliance with the requirements of CAM at the facility for a period of at least five years, and must make such records available to the Department upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 1-44: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR 64.7

Item 1-44.1:

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

Emission Unit: U-DEC01	
Process: 001	Emission Source: TURB1
Emission Unit: U-DEC01	
Process: 002	Emission Source: TURB1
Emission Unit: U-DEC01	
Process: 003	Emission Source: TURB1
Regulated Contaminant(s):	
CAS No: 0NY998-00-0	VOC

Item 1-44.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

For the purposes of Compliance Assurance Monitoring, the facility owner or operator shall ensure that the minimum operating load of the combustion turbine does not fall below the limit specified below during periods of steady state operation. Steady state operation does not include periods of start-up, shutdown, fuel switching, or any other periods approved by the Department.

The facility owner or operator shall continuously monitor and record the actual operating load of the combustion turbine. Records kept pursuant to this requirement shall include all data necessary to demonstrate the actual operating load of the combustion turbine. All records used to determine compliance with the applicable limit(s) must be kept at the facility (or other Department approved location) for a minimum of five years.

Parameter Monitored: ELECTRICAL LOAD OUTPUT
 Lower Permit Limit: 50 percent
 Monitoring Frequency: CONTINUOUS
 Averaging Method: MINIMUM - NOT TO FALL BELOW STATED

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

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 1-45: Facility Subject to Title IV Acid Rain Regulations and Permitting
Effective for entire length of Permit

Applicable Federal Requirement:40 CFR Part 72

Item 1-45.1: This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.

Condition 38: Compliance Certification
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:40CFR 72.9, Subpart A

Expired by Mod 1

Item 38.1:

The Compliance Certification activity will be performed for the Facility.

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of Units 1, 2, 3, and 4 shall have an Acid Rain Permit and shall operate these units in compliance with the Acid Rain Permit. The Acid Rain Permit shall be attached to and part of the Title V permit. For Units 1, 2, 3, and 4, the facility must comply with the Acid Rain emission limitations or reduction requirements for SO₂ and NO_x and with the monitoring requirements of 40 CFR 75.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 45: Emission Point Definition By Emission Unit
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 45.1(From Mod 1):

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

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

Emission Unit: U-DEC01

Emission Point: DEC01

Height (ft.): 200 Diameter (in.): 276
NYTMN (km.): 4602.888 NYTME (km.): 586.321

Item 45.2(From Mod 1):

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

Emission Unit: U-DEC02

Emission Point: DEC02

Height (ft.): 50 Diameter (in.): 36
NYTMN (km.): 4602.888 NYTME (km.): 586.321 Building: AuxBoil

Item 45.3(From Mod 1):

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

Emission Unit: U-DECEG

Emission Point: DECEG

Height (ft.): 15 Diameter (in.): 18
NYTMN (km.): 4602.888 NYTME (km.): 586.321

Item 45.4(From Mod 1):

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

Emission Unit: U-DECFP

Emission Point: DECFP

Height (ft.): 15 Diameter (in.): 6
NYTMN (km.): 4602.888 NYTME (km.): 586.321

Item 45.5(From Mod 0):

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

Emission Unit: U-D0001

Emission Point: 00001

Height (ft.): 220 Diameter (in.): 144
NYTMN (km.): 4602.946 NYTME (km.): 586.327 Building: D1

Item 45.6(From Mod 0):

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

Emission Unit: U-D0002

Emission Point: 00002

Height (ft.): 220 Diameter (in.): 144

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

NYTMN (km.): 4602.926 NYTME (km.): 586.318 Building: D2

Item 45.7(From Mod 0):

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

Emission Unit: U-D0003

Emission Point: 00003

Height (ft.): 240

Diameter (in.): 113

NYTMN (km.): 4602.907 NYTME (km.): 586.308 Building: D3/D4

Item 45.8(From Mod 0):

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

Emission Unit: U-D0004

Emission Point: 00004

Height (ft.): 240

Diameter (in.): 151

NYTMN (km.): 4602.885 NYTME (km.): 586.295 Building: D3/D4

Condition 46: Process Definition By Emission Unit

Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 46.1(From Mod 1):

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

Emission Unit: U-DEC01

Process: 001

Source Classification Code: 2-01-002-01

Process Description:

Process 001 for Emission Unit U-DEC01 represents natural gas firing in the combustion turbine without operation of the duct burner. For this process, dry-Low NOx burners and SCR are used to control NOx emissions and an oxidation catalyst is used to control CO and VOC emissions.

Emission Source/Control: TURB1 - Combustion

Design Capacity: 3,315 million Btu per hour

Emission Source/Control: DLN01 - Control

Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXC01 - Control

Control Type: OXIDATION CATALYST

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 46.2(From Mod 1):

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

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Emission Unit: U-DEC01

Process: 002

Source Classification Code: 2-01-002-01

Process Description:

Process 002 for Emission Unit U-DEC01 represents natural gas firing in the combustion turbine with operation of the duct burner. For this process, dry-Low NOx burners and SCR are used to control NOx emissions and an oxidation catalyst is used to control CO and VOC emissions.

Emission Source/Control: TURB1 - Combustion

Design Capacity: 3,315 million Btu per hour

Emission Source/Control: DLN01 - Control

Control Type: DRY LOW NOx BURNER

Emission Source/Control: OXC01 - Control

Control Type: OXIDATION CATALYST

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 46.3(From Mod 1):

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

Emission Unit: U-DEC01

Process: 003

Source Classification Code: 1-02-006-01

Process Description:

Process 003 for Emission Unit U-DEC01 represents ULSD firing in the combined cycle combustion turbine. For this process, water injection and Selective Catalytic Reduction are used to control NOx emissions. An oxidation catalyst will be used to control emissions of carbon monoxide and VOC.

Emission Source/Control: TURB1 - Combustion

Design Capacity: 3,315 million Btu per hour

Emission Source/Control: OXC01 - Control

Control Type: OXIDATION CATALYST

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: WTI01 - Control

Control Type: WATER INJECTION

Item 46.4(From Mod 1):

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

Emission Unit: U-DEC02

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Process: 004 Source Classification Code: 1-02-006-02
Process Description:
 Process 004 for Emission Unit U-DEC02 represents natural
 gas firing in the auxiliary boiler.

Emission Source/Control: AUXB1 - Combustion
Design Capacity: 96 million Btu per hour

Emission Source/Control: LNB01 - Control
Control Type: LOW NOx BURNER

Item 46.5(From Mod 1):

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

Emission Unit: U-DECEG
Process: 005 Source Classification Code: 2-01-002-01
Process Description: Emergency diesel generator firing ULSD.

Emission Source/Control: DECEG - Combustion
Design Capacity: 2,000 kilowatts

Item 46.6(From Mod 1):

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

Emission Unit: U-DECFP
Process: 006 Source Classification Code: 2-01-002-01
Process Description: Emergency fire pump firing ULSD.

Emission Source/Control: DECFP - Combustion
Design Capacity: 327 horsepower (mechanical)

Item 46.7(From Mod 0):

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

Emission Unit: U-D0001
Process: D10 Source Classification Code: 1-01-004-01
Process Description:
 The combustion of No. 6 oil. The heat input rating of the
 boiler is 900 mmBtu/hr for No. 6 oil firing. Particulate
 emissions are controlled by a cold side electrostatic
 precipitator. Emissions of NOx are reduced through the use
 of low excess air and combustion air manipulation.

Emission Source/Control: SD001 - Combustion

Emission Source/Control: CD001 - Control
Control Type: ELECTROSTATIC PRECIPITATOR

Item 46.8(From Mod 0):

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

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Emission Unit: U-D0001
 Process: D1G Source Classification Code: 1-01-006-01
 Process Description:
 The combustion of natural gas. The heat input rating of the boiler is 900 mmBtu/hr for natural gas firing. Emissions of NOx are reduced through the use of low excess air combustion air manipulation.

Emission Source/Control: SD001 - Combustion

Item 46.9(From Mod 0):

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

Emission Unit: U-D0002
 Process: D20 Source Classification Code: 1-01-004-01
 Process Description:
 The combustion of No. 6 oil. The heat input rating of the boiler is 900 mmBtu/hr for No. 6 oil firing. Particulate emissions are controlled by a cold side electrostatic precipitator. Emissions of NOx are reduced through the use of combustion air manipulation through the windbox.

Emission Source/Control: SD002 - Combustion

Emission Source/Control: CD002 - Control
 Control Type: ELECTROSTATIC PRECIPITATOR

Item 46.10(From Mod 0):

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

Emission Unit: U-D0002
 Process: D2G Source Classification Code: 1-01-006-01
 Process Description:
 The combustion of natural gas. The heat input rating of the boiler is 900 mmBtu/hr for natural gas firing. Emissions of NOx are reduced through the use of low excess air and combustion air manipulation.

Emission Source/Control: SD002 - Combustion

Item 46.11(From Mod 0):

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

Emission Unit: U-D0003
 Process: D3G Source Classification Code: 1-01-006-01
 Process Description:
 The combustion of natural gas. The heat input rating of the boiler is 1167 mmBtu/hr for natural gas firing. Emissions of NOx are reduced through the use of separated overfire air, burners-out-of-service (BOOS), and low NOx burners.

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Emission Source/Control: SD003 - Combustion

Item 46.12(From Mod 0):

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

Emission Unit: U-D0004

Process: D4G

Source Classification Code: 1-01-006-01

Process Description:

The combustion of natural gas. The heat input rating of the boiler is 2397 mmBtu/hr for natural gas firing.

Emissions of NO_x are reduced through the use of separated overfire air, burners-out-of-service (BOOS), and low NO_x burners.

Emission Source/Control: SD004 - Combustion

**Condition 1-46: Subpart Kb - VOC Tanks constructed after July 23, 1984
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60, NSPS Subpart Kb

Item 1-46.1:

This Condition applies to Emission Unit: U-DEC01 Emission Point: DEC01

Process: 003

Emission Source:

TURB1

Item 1-46.2:

This source is subject to the requirements of 40 CFR 60 Subpart Kb.

**Condition 1-47: Applicability of this Subpart to this emission source
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc

Item 1-47.1:

This Condition applies to Emission Unit: U-DEC02 Emission Point: DEC02

Process: 004

Emission Source:

AUXB1

Item 1-47.2:

This emission source is subject to the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

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Facility DEC ID: 3334600011

**Condition 1-48: MACT General Provisions - emission unit level
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 63, Subpart A

Item 1-48.1:

This Condition applies to Emission Unit: U-DECEG

Item 1-48.2:

This emission unit 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.

**Condition 1-49: MACT General Provisions - emission unit level
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 63, Subpart A

Item 1-49.1:

This Condition applies to Emission Unit: U-DECFP

Item 1-49.2:

This emission unit 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.

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

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

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Facility DEC ID: 3334600011

shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 47: Contaminant List
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable State Requirement:ECL 19-0301

Item 47.1:

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

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

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

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

CAS No: 007664-41-7
Name: AMMONIA

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

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

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

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

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

Condition 48: Malfunctions and start-up/shutdown activities
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable State Requirement:

Expired by Mod 1

Item 48.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Condition 1-50: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 201-1.4

Item 1-50.1:

(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 50: Compliance Demonstration
Effective between the dates of 04/09/2020 and Permit Expiration Date

Applicable State Requirement:

Expired by Mod 1

Item 50.1:

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

The Compliance Demonstration activity will be performed for the Facility.

Item 50.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following pertains to all continuous opacity monitoring systems (COMS) at the facility:

1. Maintenance

Corrective maintenance activities shall be performed as needed. All corrective maintenance activities shall be documented on Corrective Action Sheets.

A preventative maintenance program shall be implemented and shall include the following activities:

Daily: Each opacity monitor automatically performs a zero and span calibration check every 24 hours according to 40 CFR 60, PS1 specifications. Daily zero and span calibration data are reviewed. The maintenance technicians correct any problems identified at this time. If the problem cannot be corrected, the CEM maintenance consultant is contacted.

Weekly: Maintenance technicians review opacity calibration trending and six-minute opacity data trending. If a problem is suspected, the maintenance technicians take corrective action and if the problem is not, the CEM consultant is contacted.

Monthly: The CEM maintenance consultant cleans the lenses at each unit and performs any required maintenance.

Quarterly: The CEM maintenance consultant performs opacity audits according to 40 CFR 60, PS1. During the audit, the monitor alignment is checked and adjusted, if required, and the lenses are cleaned. Opacity reports are generated from the CEM systems and submitted to NYSDEC Region 3 and Central Office.

Annually: The CEM maintenance consultant performs an opacity monitor response time test in accordance with 40 CFR 60, PS1.

2. Quality Assurance

The facility shall implement a quality assurance program

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consisting of quarterly data reviews and bi-annual program audits. Quarterly data reviews shall be resumed during which the opacity data collected during the quarter shall be examined to assure that exceedance events are properly documented with an Opacity Incident Report (OIR) and required notifications have been made. Program audits consisting of a thorough review of the opacity monitoring program shall be conducted by June 30 and December 31 of each year. The audits shall be verified by both daily zero and span checks and annual calibration error assessments. They shall also review the documentation to assure that all records are complete, and proper documentation is maintained of all OIRs, and monitor maintenance.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 1-51: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 242-8.5

Item 1-51.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 1-51.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

(a) General provisions. The CO₂ authorized account representative shall comply with all recordkeeping and reporting requirements in this section, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the requirements of section 242-2.1(e) of this Part.

(b) Monitoring plans. The owner or operator of a CO₂ budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

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(c) Certification applications. The CO₂ authorized account representative shall submit an application to the department within 45 days after completing all CO₂ monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO₂ authorized account representative shall submit quarterly reports, as follows:

(1) The CO₂ authorized account representative shall report the CO₂ mass emissions data and heat input data for the CO₂ budget unit, in an electronic format prescribed by the administrator unless otherwise prescribed by the department for each calendar quarter.

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

(3) The CO₂ authorized account representative shall submit to the department or its agent a compliance certification in support of each quarterly report based on reasonable inquiry of those persons with primary responsibility for ensuring that all of the unit's emissions are correctly and fully monitored. The certification shall state that:

(i) the monitoring data submitted were recorded in accordance with the applicable requirements of this Subpart and 40 CFR part 75, including the quality assurance procedures and specifications;

(ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO₂ emissions; and

(iii) the CO₂ concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO₂ emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

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Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

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

**Condition 1-52: Compliance Demonstration
 Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 251.3 (a) (1)

Item 1-52.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-DEC01 Emission Point: DEC01

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

Item 1-52.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Owners or operators of boilers that are permitted to fire greater than 70 percent fossil fuel, combined cycle combustion turbines, or stationary internal combustion engines that fire only gaseous fuel, except for those emission sources directly attached to a gasifier, are required to meet an emission rate of 925 pounds of CO₂ per MW hour gross electrical output (output-based limit). These emission limits are measured on a 12-month rolling average basis, calculated by dividing the annual total of CO₂ emissions over the relevant 12-month period by the annual total (gross) MW generated (output-based limit). The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Manufacturer Name/Model Number: CO₂ Continuous Monitor
 Parameter Monitored: CARBON DIOXIDE
 Upper Permit Limit: 925 pounds per megawatt hour
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 12 MONTH AVERAGE - ROLLED MONTHLY
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 1-53: Compliance Demonstration
 Effective for entire length of Permit**

Permit ID: 3-3346-00011/00017

Facility DEC ID: 3334600011

Applicable State Requirement: 6 NYCRR 251.3 (b)

Item 1-53.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-DEC01 Emission Point: DEC01

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

Item 1-53.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

On or after December 31, 2020, owners or operators of non-modified existing sources shall not fire any single fossil fuel, alone or in combination with any other fuel, where each fossil fuel is required to meet an emission rate of 180 pounds of CO₂ per million Btu of input (input-based limit). These emission limits are measured on an annual basis, calculated by dividing the annual total of CO₂ emissions for the calendar year by the annual total Btus (input-based limit) fired for each separate fossil fuel fired. The owner or operator must maintain all records associated with these requirements on site or at a location acceptable to the Department for a minimum of five years.

Manufacturer Name/Model Number: CO₂ Continuous Monitor

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 180 pounds per million Btus

Monitoring Frequency: CONTINUOUS

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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Facility DEC ID: 3334600011