

Facility DEC ID: 2630400024

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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 2-6304-00024/00039  
Mod 0 Effective Date: 04/28/2020 Expiration Date: 04/27/2025  
Mod 1 Effective Date: 10/12/2023 Expiration Date: 04/27/2025

Permit Issued To: HELIX RAVENSWOOD LLC  
38-54 VERNON BLVD  
LONG ISLAND CITY, NY 11101

Contact: ROBERTA ZWIER  
HELIX RAVENSWOOD LLC  
38-54 VERNON BLVD  
LONG ISLAND CITY, NY 11101  
(832) 334-7457

Facility: RAVENSWOOD GENERATING STATION  
38-54 VERNON BLVD  
QUEENS, NY 11101

Description:

The proposed minor permit modification to include new carbon dioxide limits as required by the 6 NYCRR 251 Performance Standards for Major Electric Generating Facilities. Ravenswood proposes to add a permit condition for 6 NYCRR 251.3 (b) as a new Applicable State Requirement to the currently active Title V Permit (2-6304-00024/00039).

Facility is currently in compliance with the proposed limits, and emissions will not increase

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: STEPHEN A WATTS  
47-40 21ST ST  
LONG ISLAND CITY, NY 11101-5401

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**

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- 4 2 Relationship of this Permit to Other Department Orders and Determinations
- 4 3 Applications for permit renewals, modifications and transfers
- 5 4 Permit modifications, suspensions or revocations by the Department

**Facility Level**

- 5 5 Submission of application for permit modification or renewal - REGION 2 HEADQUARTERS

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**DEC GENERAL CONDITIONS**

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

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

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

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

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

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

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

**Item 2.1:**

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

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

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3**

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

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submitted prior to actual transfer of ownership.

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

**Item 4.1:**

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

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

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

**Condition 5: Submission of application for permit modification or renewal - REGION 2**  
**HEADQUARTERS**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 2 Headquarters  
Division of Environmental Permits  
1 Hunters Point Plaza, 4740 21st Street  
Long Island City, NY 11101-5407  
(718) 482-4997

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

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: HELIX RAVENSWOOD LLC  
38-54 VERNON BLVD  
LONG ISLAND CITY, NY 11101

Facility: RAVENSWOOD GENERATING STATION  
38-54 VERNON BLVD  
QUEENS, NY 11101

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

Mod 0 Permit Effective Date: 04/28/2020

Permit Expiration Date: 04/27/2025

Mod 1 Permit Effective Date: 10/12/2023

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- 9 2 6 NYCRR 201-6.4 (a) (7): Fees
- 9 3 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 9 4 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 10 5 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 12 6 6 NYCRR 201-6.4 (e): Compliance Certification
- 14 7 6 NYCRR 202-2.1: Compliance Certification
- 14 8 6 NYCRR 202-2.5: Recordkeeping requirements
- 15 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 16 1-1 6 NYCRR 200.7: Maintenance of Equipment
- 16 10 6 NYCRR 200.7: Maintenance of Equipment
- 16 11 6 NYCRR 201-1.7: Recycling and Salvage
- 16 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 17 13 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 17 14 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 17 15 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 17 16 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 18 17 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 18 18 40 CFR Part 68: Accidental release provisions.
- 19 19 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 19 20 6 NYCRR Subpart 201-6: Emission Unit Definition
- 20 21 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 20 1-2 6 NYCRR 201-6.4 (f): Operational Flexibility
- 20 22 6 NYCRR 202-1.1: Required Emissions Tests - Facility Level
- 21 1-3 6 NYCRR 202-2.4 (a) (3): Statement dates for emissions statements.
- 21 23 6 NYCRR 211.2: Visible Emissions Limited
- 21 24 6 NYCRR 225-1.2 (g): Compliance Certification
- 22 25 6 NYCRR 225-1.2 (h): Compliance Certification
- 23 26 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 23 27 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

**EU=U-CC001**

- 26 28 6 NYCRR Subpart 201-6: Compliance Certification
- 27 29 6 NYCRR Subpart 201-6: Compliance Certification
- 28 30 6 NYCRR Subpart 201-6: Compliance Certification
- 30 31 6 NYCRR Subpart 201-6: Compliance Certification
- 31 32 6 NYCRR Subpart 201-6: Compliance Certification
- 31 33 6 NYCRR Subpart 201-6: Compliance Certification
- 32 34 6 NYCRR Subpart 201-6: Compliance Certification
- 33 35 6 NYCRR Subpart 231-2: Compliance Certification
- 34 36 6 NYCRR Subpart 231-2: Compliance Certification
- 34 37 40CFR 52.21(j), Subpart A: Compliance Certification

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35 38 40CFR 52.21(j), Subpart A: Compliance Certification  
 36 39 40CFR 52.21(j), Subpart A: Compliance Certification  
 36 40 40CFR 60.334(a), NSPS Subpart GG: Compliance Certification  
 37 41 40CFR 60.334(b), NSPS Subpart GG: Compliance Certification

**EU=U-CC001,Proc=PC1**

37 42 6 NYCRR 231-2.5: Compliance Certification  
 38 43 6 NYCRR 231-2.5: Compliance Certification  
 39 44 40CFR 75.11(d), Subpart B: Compliance Certification

**EU=U-CC001,Proc=PC2**

40 45 6 NYCRR 231-2.5: Compliance Certification  
 41 46 6 NYCRR 231-2.5: Compliance Certification

**EU=U-CC001,Proc=PC3**

41 47 6 NYCRR 231-2.5: Compliance Certification  
 42 48 6 NYCRR 231-2.5: Compliance Certification  
 43 49 40CFR 75.11(d), Subpart B: Compliance Certification

**EU=U-CC001,Proc=PC4**

44 50 6 NYCRR 231-2.5: Compliance Certification  
 45 51 6 NYCRR 231-2.5: Compliance Certification

**EU=U-CC001,EP=CC001**

46 52 6 NYCRR 227-1.3: Compliance Certification  
 47 53 40CFR 75.11(e), Subpart B: Compliance Certification

**EU=U-CC001,EP=CC001,Proc=PC1**

48 54 40CFR 52.21(j), Subpart A: Compliance Certification  
 48 55 40CFR 52.21(j), Subpart A: Compliance Certification  
 49 56 40CFR 52.21(j), Subpart A: Compliance Certification  
 50 57 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=U-CC001,EP=CC001,Proc=PC2**

51 58 40CFR 52.21(j), Subpart A: Compliance Certification  
 52 59 40CFR 52.21(j), Subpart A: Compliance Certification  
 52 60 40CFR 52.21(j), Subpart A: Compliance Certification  
 53 61 40CFR 52.21(j), Subpart A: Compliance Certification  
 54 62 40CFR 75.11(e), Subpart B: Compliance Certification

**EU=U-CC001,EP=CC001,Proc=PC3**

55 63 40CFR 52.21(j), Subpart A: Compliance Certification  
 56 64 40CFR 52.21(j), Subpart A: Compliance Certification  
 56 65 40CFR 52.21(j), Subpart A: Compliance Certification  
 57 66 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=U-CC001,EP=CC001,Proc=PC4**

58 67 40CFR 52.21(j), Subpart A: Compliance Certification  
 59 68 40CFR 52.21(j), Subpart A: Compliance Certification  
 59 69 40CFR 52.21(j), Subpart A: Compliance Certification  
 60 70 40CFR 52.21(j), Subpart A: Compliance Certification



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61 71 40CFR 75.11(e), Subpart B: Compliance Certification

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64 72 ECL 19-0301: Contaminant List  
65 1-4 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities  
66 1-5 6 NYCRR 201-6.5 (a): Compliance Demonstration  
66 1-6 6 NYCRR 201-6.5 (a): Compliance Demonstration  
68 74 6 NYCRR 211.1: Air pollution prohibited  
68 75 6 NYCRR 242-1.5: Compliance Demonstration  
69 76 6 NYCRR 242-1.5: Compliance Demonstration

**Emission Unit Level**

**EU=U-CC001**

70 1-7 6 NYCRR 251.3 (b): Compliance Demonstration

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**FEDERALLY ENFORCEABLE CONDITIONS**

Renewal 3/Mod 1/FINAL

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**Item K: Permit Exclusion - ECL 19-0305**

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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality  
Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 6 NYCRR 200.6****Item 1.1:**

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

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

**Condition 2: Fees**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 2.1:**

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

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 3.1:**

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

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

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

**Condition 4: Records of Monitoring, Sampling, and Measurement**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 4.1:**

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

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reports required by the permit.

**Condition 5: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements,

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the report shall be contained in the 6 month monitoring report required above.

(4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

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

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

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

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual



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report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2020.  
Subsequent reports are due every 6 calendar month(s).

**Condition 6: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

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

- i. Compliance certifications shall contain:
  - the identification of each term or condition of the permit that is the basis of the certification;
  - the compliance status;
  - whether compliance was continuous or intermittent;
  - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
  - such other facts as the Department may require to determine the compliance status of the facility as

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specified in any special permit terms or conditions;  
and  
- such additional requirements as may be specified elsewhere in this permit related to compliance certification.

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

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

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

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

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer  
Hunters Point Plaza  
47-40 21st Street  
Long Island City, NY 11101-5407

The address for the BQA is as follows:

NYSDEC  
Bureau of Quality Assurance

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625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2020.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
Effective between the dates of 04/28/2020 and 04/27/2025

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

**Item 7.1:**  
The Compliance Certification activity will be performed for the Facility.

**Item 7.2:**  
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

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

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 0 days after the reporting period.  
The initial report is due 4/15/2021.  
Subsequent reports are due every 12 calendar month(s).

**Condition 8: Recordkeeping requirements**  
Effective between the dates of 04/28/2020 and 04/27/2025

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

**Item 8.1:**  
(a) The following records shall be maintained for at least five years:  
  
(1) a copy of each emission statement submitted to the department; and  
  
(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.  
  
(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

**Condition 9: Open Fires - Prohibitions**

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Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement: 6 NYCRR 215.2****Item 9.1:**

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

**Item 9.2**

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

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

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**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 1-1: Maintenance of Equipment**  
Effective between the dates of 10/12/2023 and 04/27/2025

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 1-1.1:**

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 04/28/2020 and 04/27/2025

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 10.1:**

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

**Condition 11: Recycling and Salvage**  
Effective between the dates of 04/28/2020 and 04/27/2025

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

**Item 11.1:**

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

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
Effective between the dates of 04/28/2020 and 04/27/2025

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

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**Item 12.1:**

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

**Condition 13: Exempt Sources - Proof of Eligibility****Effective between the dates of 04/28/2020 and 04/27/2025****Applicable Federal Requirement:6 NYCRR 201-3.2 (a)****Item 13.1:**

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

**Condition 14: Trivial Sources - Proof of Eligibility****Effective between the dates of 04/28/2020 and 04/27/2025****Applicable Federal Requirement:6 NYCRR 201-3.3 (a)****Item 14.1:**

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

**Condition 15: Requirement to Provide Information****Effective between the dates of 04/28/2020 and 04/27/2025****Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)****Item 15.1:**

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

**Condition 16: Right to Inspect****Effective between the dates of 04/28/2020 and 04/27/2025****Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)****Item 16.1:**

The department or an authorized representative shall be allowed upon presentation of

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credentials and other documents as may be required by law to:

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

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

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

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

**Condition 17: Off Permit Changes****Effective between the dates of 04/28/2020 and 04/27/2025****Applicable Federal Requirement: 6 NYCRR 201-6.4 (f) (6)****Item 17.1:**

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

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

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

**Condition 18: Accidental release provisions.****Effective between the dates of 04/28/2020 and 04/27/2025****Applicable Federal Requirement: 40 CFR Part 68****Item 18.1:**

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

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requirements will apply:

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

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

**Condition 19: Recycling and Emissions Reduction**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 82, Subpart F**

**Item 19.1:**  
 The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

**Condition 20: Emission Unit Definition**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 20.1(From Mod 1):**  
 The facility is authorized to perform regulated processes under this permit for:

Emission Unit: U-CC001

Emission Unit Description:

EMISSION UNIT UCC001 REPRESENTS ONE GE S107FA COMBUSTION TURBINE RATED AT 1779 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 54.6 DEGREES FAHRENHEIT AND 2028 MMBTU/HR WHEN FIRING DISTILLATE OIL (BACK-UP FUEL) AT -5 DEGREES FAHRENHEIT. THE COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 644 MMBTU/HR (HIGH HEATING VALUE) WHILE FIRING



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NATURAL GAS. THE COMBINED CYCLE FACILITY  
GENERATES APPROXIMATELY 250 MW OF POWER.

DISTILLATE OIL USED IN THIS EMISSION UNIT  
WILL BE ULTRA-LOW-SULFUR FUEL OIL (<  
0.0015% SULFUR BY WEIGHT). AS REFERENCED  
IN SOME OTHER PERMIT CONDITIONS, DISTILLATE  
OIL IS INTERCHANGABLE WITH KEROSENE.

Building(s): CCRAV01

**Condition 21: Progress Reports Due Semiannually**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 21.1:**

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

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

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

**Condition 1-2: Operational Flexibility**  
**Effective between the dates of 10/12/2023 and 04/27/2025**

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

**Item 1-2.1:**

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 22: Required Emissions Tests - Facility Level**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 22.1:**

An acceptable report of measured emissions shall be submitted, as required by the commissioner, to ascertain compliance or noncompliance with any air pollution code, rule, or

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regulation.

**Condition 1-3: Statement dates for emissions statements.**  
**Effective between the dates of 10/12/2023 and 04/27/2025**

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

**Item 1-3.1:**

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

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

**Condition 23: Visible Emissions Limited**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 23.1:**

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

**Condition 24: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**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: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion  
installation that fires distillate oil other than number

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two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL  
Parameter Monitored: SULFUR CONTENT  
Upper Permit Limit: 0.0015 percent by weight  
Monitoring Frequency: PER DELIVERY  
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 25: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 25.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
OPERATIONS

Monitoring Description:

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

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

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Department.

Work Practice Type: PARAMETER OF PROCESS MATERIAL  
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL  
 Parameter Monitored: SULFUR CONTENT  
 Upper Permit Limit: 0.0015 percent by weight  
 Monitoring Frequency: PER DELIVERY  
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
 TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

**Condition 26: Emission Point Definition By Emission Unit**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 26.1(From Mod 0):**

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

Emission Unit: U-CC001

Emission Point: CC001  
 Height (ft.): 400 Diameter (in.): 222  
 NYTMN (km.): 4512.613 NYTME (km.): 588.961 Building: CCRAV01

**Condition 27: Process Definition By Emission Unit**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 27.1(From Mod 1):**

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

Emission Unit: U-CC001  
 Process: PC1 Source Classification Code: 2-01-002-01

Process Description:  
 EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 1779 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 54.6 DEGREES FAHRENHEIT OPERATING AT 40-100% LOAD. PROCESS PC1 FOR EMISSION UNIT UCC001 REPRESENTS NATURAL GAS FIRING IN THE TURBINE AND NO DUCT BURNER FIRING. FOR THIS PROCESS DRY LOW NO<sub>x</sub> BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO<sub>x</sub> EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION

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CATALYST. TOTAL THROUGHPUT VALUES LISTED BELOW REPRESENT MAXIMUM NATURAL GAS USE FOR THE SHORT-TERM (HOURLY) BASIS WHILE THE ANNUAL QUANTITY PER YEAR OF NATURAL GAS REPRESENTS TURBINE OPERATIONS AT THE AVERAGE ANNUAL TEMPERATURE (54.6 DEGREES FAHRENHEIT).

Emission Source/Control: ESCC1 - Combustion  
 Design Capacity: 2,028 million Btu per hour

Emission Source/Control: 00OX1 - Control  
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: 0DLN1 - Control  
 Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0SCR1 - Control  
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 27.2(From Mod 1):**

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

Emission Unit: U-CC001  
 Process: PC2 Source Classification Code: 2-01-009-01

Process Description:

EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 2028 MMBTU/HR WHEN FIRING DISTILLATE OIL (BACK-UP FUEL) AT -5 DEGREES FAHRENHEIT OPERATING AT 40-100% LOAD. PROCESS PC2 FOR EMISSION UNIT UCC001 REPRESENTS DISTILLATE OIL FIRING IN THE TURBINE AND NO DUCT BURNER FIRING. FOR THIS PROCESS DRY LOW NO<sub>x</sub> BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO<sub>x</sub> EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. DISTILLATE OIL USE WILL BE LIMITED TO 540 HOURS PER YEAR OF OPERATION. MAXIMUM TOTAL THROUGHPUT OF DISTILLATE OIL ON AN HOURLY BASIS, REPRESENTS TURBINE OPERATIONS AT -5 DEGREES FAHRENHEIT AT FULL LOAD.

DISTILLATE FUEL USED IS ULTRA LOW SULFUR FUEL OIL. AS REFERENCED IN SOME OTHER PERMIT CONDITIONS, DISTILLATE OIL IS INTERCHANGABLE WITH KEROSENE.

Emission Source/Control: ESCC1 - Combustion

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Design Capacity: 2,028 million Btu per hour

Emission Source/Control: 00OX1 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: 0DLN1 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Item 27.3(From Mod 1):**

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

Emission Unit: U-CC001

Process: PC3

Source Classification Code: 2-01-002-01

Process Description:

EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 1779 MMBTU/HR WHEN FIRING NATURAL GAS (THE PRIMARY FUEL) AT 54.6 DEGREES FAHRENHEIT OPERATING AT 40-100% LOAD. THE COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 644 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS PC3 FOR EMISSION UNIT UCC001 REPRESENTS NATURAL GAS FIRING IN THE GAS TURBINE AND DUCT BURNER. FOR THIS PROCESS DRY LOW NO<sub>x</sub> BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO<sub>x</sub> EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. TOTAL THROUGHPUT VALUES LOCATED BELOW REPRESENT NATURAL GAS USE FOR THE SHORT-TERM (HOURLY) BASIS WHILE THE ANNUAL QUANTITY PER YEAR OF NATURAL GAS REPRESENTS TURBINE OPERATIONS AT THE AVERAGE ANNUAL TEMPERATURE (54.6 DEGREES FAHRENHEIT).

Emission Source/Control: 0DB01 - Combustion  
Design Capacity: 644 million Btu per hour

Emission Source/Control: ESCC1 - Combustion  
Design Capacity: 2,028 million Btu per hour

Emission Source/Control: 00OX1 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: 0DLN1 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

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**Item 27.4(From Mod 1):**

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

Emission Unit: U-CC001

Process: PC4

Source Classification Code: 2-01-009-01

Process Description:

EMISSION UNIT UCC001 REPRESENTS A GE S107FA COMBUSTION TURBINE RATED AT 2028 MMBTU/HR WHEN FIRING DISTILLATE OIL (BACK-UP FUEL) AT -5 DEGREES FAHRENHEIT OPERATING AT 85-100% LOAD. THE COMBUSTION TURBINE IS EQUIPPED WITH A DUCT BURNER RATED AT 644 MMBTU/HR WHILE FIRING NATURAL GAS. PROCESS PC4 FOR EMISSION UNIT UCC001 REPRESENTS DISTILLATE OIL FIRING IN THE GAS TURBINE, WHILE NATURAL GAS IS FIRED IN THE DUCT BURNER. FOR THIS PROCESS DRY LOW NO<sub>x</sub> BURNERS AND SELECTIVE CATALYTIC REDUCTION ARE USED TO CONTROL NO<sub>x</sub> EMISSIONS. EMISSIONS OF VOC AND CO ARE CONTROLLED THROUGH THE USE OF AN OXIDATION CATALYST. DISTILLATE OIL USE WILL BE LIMITED TO 540 HOURS PER YEAR OF OPERATION. MAXIMUM TOTAL THROUGHPUT OF DISTILLATE OIL, ON AN HOURLY BASIS, REPRESENTS TURBINE OPERATIONS AT -5 D F AT FULL LOAD.

DISTILLATE FUEL USED IS ULTRA LOW SULFUR FUEL OIL. AS REFERENCED IN SOME OTHER PERMIT CONDITIONS, DISTILLATE OIL IS INTERCHANGABLE WITH KEROSENE.

Emission Source/Control: 0DB01 - Combustion  
Design Capacity: 644 million Btu per hour

Emission Source/Control: ESCC1 - Combustion  
Design Capacity: 2,028 million Btu per hour

Emission Source/Control: 00OX1 - Control  
Control Type: CATALYTIC OXIDATION

Emission Source/Control: 0DLN1 - Control  
Control Type: DRY LOW NO<sub>x</sub> BURNER

Emission Source/Control: 0SCR1 - Control  
Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

**Condition 28: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Item 28.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

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

**Item 28.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This facility shall install, calibrate, maintain and operate a continuous emissions monitor for oxides of nitrogen, during fuel switching.

The facility will collect, maintain and report to NYSDEC the emissions during the fuel switching instances.

Data points has been established by past instances and NYSDEC established the emission limit for fuel switching period as under. All records shall be maintained by the facility for a minimum of five years.

NOx: 500 pounds per fuel switching event

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 500 pounds per event

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER  
OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 29: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 29.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

**Item 29.2:**



Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Start-up is defined as the period that begins when the combustion turbine generator engine is first fired with fuel and ends when the combustion turbine generator engine begins operating in Mode 6Q plus 60 minutes, not to exceed 6 hours per occurrence.

The emission limit of 800 pounds for total NO<sub>x</sub> emissions per start-up of natural gas event not exceeding six (6) hours applies to the combustion turbine indicated in this condition. The owner/operator shall record the date and time of each period of start up. The emissions in excess of this limit shall be reported in the excess emission report. All records shall be maintained at the facility for a period of at least five (5) years.

Mode 6Q is a GE Frame 7FA operating mode that indicates the combustion turbine unit has gotten into a steady-state operating condition (full load). It is the last mode as a combustion turbine unit comes up on MW load (this is standard for all Frame 7FA combustion turbines).

After mode 6Q is achieved during start-up, the operators then begin to add ammonia, emission controls and balance out the auxiliary equipment in order to complete the start-up. This is similar on distillate oil start-ups, where water injection is modified after the unit achieves Mode 6Q operation to control emissions (as well as ammonia and balance of the facility).

Parameter Monitored: DURATION OF START UP

Upper Permit Limit: 6 hours

Reference Test Method: EPA Authorized

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER  
OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 30: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Applicable Federal Requirement:6 NYCRR Subpart 201-6****Item 30.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

**Item 30.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Shutdown is defined as the period of time when the stop signal is initiated to when fuel is no longer combusted in the combustion turbine generator engine or a subsequent start is initiated, not to exceed thirty (30) minutes per occurrence.

The emission limit of 40 pounds for total NO<sub>x</sub> emissions per shutdown event not exceeding thirty (30) minutes per occurrence applies to the combustion turbine indicated in this condition. The owner or operator shall record the date and time of each period of shut down. The emissions in excess of this limit shall be reported in the excess emission report. All records shall be maintained at the facility for a period of at least five (5) years.

Mode 6Q is a GE Frame 7FA operating mode that indicates the combustion turbine unit has gotten into a steady-state operating condition (full load). It is the last mode as a combustion turbine unit comes up on MW load (this is standard for all Frame 7FA Combustion turbines).

After mode 6Q is achieved during start-up, the operators then begin to add ammonia, emission controls and balance out the auxiliary equipment in order to complete the start-up. This is similar on distillate oil start-ups, where water injection is modified after the unit achieves Mode 6Q operation to control emissions (as well as ammonia and balance of the facility).

Conversely, on a shutdown, the combustion turbine unit comes out of Mode 6Q on the downside. The combustion turbine unit cannot achieve compliance when not running in Mode 6Q. On a shutdown, the combustion turbine comes out of Mode 6Q on the downside.

Parameter Monitored: DURATION OF SHUTDOWN

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Upper Permit Limit: 30 minutes  
 Reference Test Method: EPA Authorized  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 31: Compliance Certification**  
 Effective between the dates of 04/28/2020 and 04/27/2025

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

**Item 31.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

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

**Item 31.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This facility shall install, calibrate, maintain and operate a continuous emissions monitor for oxides of nitrogen.

This limit shall apply only during shut-down (as defined in the permit) period. Emissions in excess of this limit shall be reported through the facility's excess emissions report. All records shall be maintained by the facility for a minimum of five years.

Manufacturer Name/Model Number: CEM  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 40 pounds  
 Reference Test Method: EPA Authorized  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 32: Compliance Certification**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Effective between the dates of 04/28/2020 and 04/27/2025

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

**Item 32.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

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

**Item 32.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This facility shall install, calibrate, maintain and operate a continuous emissions monitor for oxides of nitrogen.

This limit shall apply only during periods of start-up period (as defined in the permit). Emissions in excess of this limit shall be reported through the facility's excess emissions report. All records shall be maintained by the facility for a minimum of five years.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 800 pounds

Reference Test Method: EPA Authorized

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 33: Compliance Certification**

Effective between the dates of 04/28/2020 and 04/27/2025

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

**Item 33.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

**Item 33.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

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

Monitoring Description:

Fuel Switch/Transfer is defined as the period of time from initiation of the fuel transfer process in the combustion turbine generator engine until the fuel transfer process is completed, not to exceed four (4) hours per occurrence.

The emission limit of 500 pounds for total NOx and for fifty pounds of total CO emissions per fuel transfer event not exceeding four (4) hours per occurrence applies to the combustion turbine indicated in this condition. The owner/operator shall log each period (date, time) of fuel transfer. The emissions in excess of this limit shall be reported in the excess emission report. All records shall be maintained at the facility for a period of at least five (5) years.

Mode 6Q is a GE Frame 7FA operating mode that indicates the combustion turbine unit has gotten into a steady-state operating condition (full load). It is the last mode as a combustion turbine unit comes up on MW load (this is standard for all Frame 7FA combustion turbines). After mode 6Q is achieved during start-up, the operators then begin to add ammonia, emission controls and balance out the auxiliary equipment in order to complete the start-up. This is similar on distillate oil start-ups, where water injection is modified after the unit achieves Mode 6Q operation to control emissions (as well as ammonia and balance of the facility).

Parameter Monitored: DURATION

Upper Permit Limit: 4 hours

Reference Test Method: EPA Authorized

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER  
OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 34: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 34.1:**

The Compliance Certification activity will be performed for:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Emission Unit: U-CC001

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility is allowed to switch fuel for maintenance of its system for 30 times in a calendar year. Such fuel switching is from gas to oil and back to gas, and for total duration of 1 hour period. All maintenance fuel switching records shall be kept and maintained by the facility for a minimum of five years.

Monitoring Frequency: CONTINUOUS

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 35: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-2**

**Item 35.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

**Item 35.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

99.2 TONS PER YEAR VOC EMISSION LIMIT.  
RAVENSWOOD WILL SHOW COMPLIANCE WITH VOC EMISSIONS BY STACK TESTING.

Parameter Monitored: VOC

Upper Permit Limit: 99.2 tons per year

Reference Test Method: Method 25A

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Condition 36: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:6 NYCRR Subpart 231-2**

**Item 36.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

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

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

142 TONS PER YEAR NO<sub>x</sub> EMISSION LIMIT.  
RAVENSWOOD WILL USE A CEM TO MONITOR NO<sub>x</sub>  
EMISSIONS AT THE STACK.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 142 tons per year

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

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 37: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

RAVENSWOOD WILL BURN NATURAL GAS AS A PRIMARY FUEL IN THE COMBUSTION TURBINE AND AS THE ONLY FUEL IN THE DUCT BURNER. AN APPROVABLE ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-5 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Monitoring Frequency: CONTINUOUS  
 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 38: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 38.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

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

**Item 38.2:**  
 Compliance Certification shall include the following monitoring:

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

Monitoring Description:  
 ALTERNATE FUEL USAGE (KEROSENE) IN THE COMBUSTION TURBINE IS LIMITED TO 11.32 MILLION GALLONS PER YEAR. AN APPROVABLE ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-2 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Parameter Monitored: KEROSENE  
 Upper Permit Limit: 11.32 million gallons  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: ANNUAL MAXIMUM ROLLED DAILY  
 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).



Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Condition 39: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 39.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

CAS No: 007440-41-7 BERYLLIUM

**Item 39.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

FOR PROCESS PC2 AND PC4

RAVENSWOOD WILL BURN KEROSENE IN THE  
COMBUSTION TURBINE (PC2) AND ALSO NATURAL  
GAS IN THE DUCT BURNER (PC4). THE FLOW  
OF KEROSENE TO THE TURBINES SHALL BE  
CONTINUOUSLY MONITORED. EMISSION FACTOR  
FOR BERYLLIUM IS 3.1E-07 IS TAKEN FROM AP  
42, HEAT INPUT FOR OIL COMBUSTION.

Parameter Monitored: BERYLLIUM

Upper Permit Limit: 2.2 pounds per year

Monitoring Frequency: SEMI-ANNUALLY

Averaging Method: 12-month rolling average

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 40: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 40.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

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

**Item 40.2:**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

RAVENSWOOD IS PROPOSING TO USE A CEM FOR NOX TO SATISFY SUBPART GG REQUIREMENTS.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.038 pounds per million Btus

Reference Test Method: Method 7E

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK 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 41: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

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

**Item 41.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

**Item 41.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

RAVENSWOOD will continue monitoring in accordance with its approved monitoring plan. Records of fuel supply and sample analysis for the determination of sulfur and nitrogen content in the fuel shall be kept and retained for a period of five (5) years and be available for inspection by personnel of federal, state and local air pollution control agencies.

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 42: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:6 NYCRR 231-2.5**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Item 42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
 Process: PC1

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

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1.2 PPM (BY VOLUME, DRY, CORRECTED TO 15% O2) VOC EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL WITH NO FUEL FIRING IN THE DUCT BURNER. RAVENSWOOD WILL SHOW COMPLIANCE WITH VOC EMISSIONS BY STACK TESTING.

Parameter Monitored: VOC

Upper Permit Limit: 1.2 parts per million by volume  
 (dry, corrected to 15% O2)

Reference Test Method: epamethod 25a

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.

The initial report is due 7/30/2020.

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

**Condition 43: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:6 NYCRR 231-2.5**

**Item 43.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
 Process: PC1

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

**Item 43.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

2 PPM (BY VOLUME, DRY, CORRECTED TO 15% O<sub>2</sub>) NO<sub>x</sub> EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL WITH NO FUEL FIRING IN THE DUCT BURNER. RAVENSWOOD WILL USE A CEM TO MONITOR NO<sub>x</sub> EMISSIONS AT THE STACK.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: epa method 7e

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR BLOCK 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 44: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 75.11(d), Subpart B**

**Item 44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Process: PC1

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 44.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

0.0071 POUNDS PER MILLION BTUS OF SULFUR DIOXIDE FOR GAS TURBINE WITH NO DUCT FIRING NATURAL GAS. AN APPROVABLE

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-2, D-5 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Parameter Monitored: SULFUR DIOXIDE  
 Upper Permit Limit: 0.0071 pounds per million Btus  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR 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 45: Compliance Certification**  
 Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement: 6 NYCRR 231-2.5**

**Item 45.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
 Process: PC2

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

**Item 45.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
 Monitoring Description:  
 3.0 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

VOC emission limit during kerosene firing in the gas turbine based upon high heating value (hhv) of fuel with no fuel firing in the duct burner. Facility will show compliance with VOC limit by stack testing.

Parameter Monitored: VOC  
 Upper Permit Limit: 3.0 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
 Reference Test Method: epa method 25a  
 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.

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

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

**Condition 46: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 6 NYCRR 231-2.5**

**Item 46.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
 Process: PC2

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

**Item 46.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:  
 9 PPM (BY VOLUME, DRY, CORRECTED TO 15% O2)

NOx emission limit during kerosene firing in the gas turbine based upon high heating value (hhv) of fuel with no fuel firing in the duct burner. Facility will use a CEM system to monitor NOx emissions at the stack.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 9.0 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: epa method 7E  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 3-HOUR BLOCK 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 47: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Applicable Federal Requirement:6 NYCRR 231-2.5**

**Item 47.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
Process: PC3

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

**Item 47.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

3.1 PPM (BY VOLUME, DRY, CORRECTED TO 15% O<sub>2</sub>) NO<sub>x</sub> EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES TO TURBINE AND THE DUCT BURNER OPERATING SIMULTANEOUSLY ON NATURAL GAS. RAVENSWOOD WILL USE A CEM TO MONITOR NO<sub>x</sub> EMISSIONS AT THE STACK.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 3.1 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: epa method 7e  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK 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 48: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:6 NYCRR 231-2.5**

**Item 48.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Process: PC3

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

**Item 48.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

7.6 PPM (BY VOLUME, DRY, CORRECTED TO 15% O2) VOC EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES TO TURBINE AND THE DUCT BURNER OPERATING SIMULTANEOUSLY ON NATURAL GAS. RAVENSWOOD WILL SHOW COMPLIANCE WITH VOC EMISSIONS BY STACK TESTING.

Parameter Monitored: VOC

Upper Permit Limit: 7.6 parts per million by volume  
(dry, corrected to 15% O2)

Reference Test Method: epa method 251

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.

The initial report is due 7/30/2020.

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

**Condition 49: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 75.11(d), Subpart B**

**Item 49.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
Process: PC3

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

**Item 49.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:



Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

0.0071 POUNDS PER MILLION BTUs OF SULFUR DIOXIDE FOR GAS TURBINE WITH DUCT FIRING NATURAL GAS. AN APPROVABLE ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-2, D-5 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Parameter Monitored: SULFUR DIOXIDE  
 Upper Permit Limit: 0.0071 pounds per million Btus  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR 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 50: Compliance Certification**  
 Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement: 6 NYCRR 231-2.5**

**Item 50.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
 Process: PC4

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

**Item 50.2:**  
 Compliance Certification shall include the following monitoring:

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

9 PPM (BY VOLUME, DRY, CORRECTED TO 15% O2)

NOx emission limit during kerosene firing based upon high heating value (hhv) of fuel. This emission limit applies to Turbine firing Kerosene while natural gas fuel firing in the duct burner. Facility will use a CEM system to monitor NOx emissions at the stack.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Manufacturer Name/Model Number: CEM  
Parameter Monitored: OXIDES OF NITROGEN  
Upper Permit Limit: 9.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: epa method 7e  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-HOUR BLOCK 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 51: Compliance Certification**  
Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement: 6 NYCRR 231-2.5**

**Item 51.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
Process: PC4

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

**Item 51.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

9.7 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

VOC emission limit during kerosene firing based upon high heating value (hhv) of fuel. This emission limit applies to Turbine firing Kerosene while natural gas fuel firing in the duct burner. Facility will show compliance with VOC emissions by stack testing.

Parameter Monitored: VOC

Upper Permit Limit: 9.7 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: epa method 25a

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.

The initial report is due 7/30/2020.

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

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Condition 52: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 6 NYCRR 227-1.3**

**Item 52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Emission Point: CC001

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which 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 for each boiler which is operating on oil 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:
  - date and time of day
  - observer's name
  - identity of emission point
  - weather condition
  - was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. 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 firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

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.

Monitoring Frequency: DAILY  
 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 53: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 40CFR 75.11(e), Subpart B**

**Item 53.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001

**Item 53.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

FACILITY KEROSENE USE WILL BE LIMITED TO AN EQUIVALENT OF 720 FULL POWER HRS/YR OR 8.2% OF ANNUAL POTENTIAL SINCE FACILITY QUALIFIES AS A "PRIMARY NATURAL GAS FIRED" (UNDER 40CFR 72.2), CONTINUOUS EMISSION MONITORING OF SO<sub>2</sub> IS NOT REQUIRED. AN APPROVABLE ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-2 D-5 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

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 54: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC1

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

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.021 LB/MMBTU PM-10 EMISSION LIMIT  
 DURING NATURAL GAS FIRING IN THE GAS  
 TURBINE BASED UPON HIGH HEATING VALUE  
 (HHV) OF FUEL WITH NO FIRING IN THE DUCT  
 BURNER. RAVENSWOOD WILL SHOW COMPLIANCE  
 WITH PM-10 EMISSION LIMIT BY STACK  
 TESTING.

Parameter Monitored: PM-10

Upper Permit Limit: 0.021 pounds per million Btus

Reference Test Method: METH201/201A & 202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 55: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 55.1:**

The Compliance Certification activity will be performed for:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC1

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

**Item 55.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.0022 pounds per million Btus OF  
 SULFURIC ACID FOR THE GAS TURBINE ALONE  
 (DUCT BURNER OFF) FIRING NATURAL GAS.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.0022 pounds per million Btus

Reference Test Method: Method 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 56: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 56.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC1

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

**Item 56.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

5 PPM (BY VOLUME, DRY, CORRECTED TO 15%  
 O2) AMMONIA EMISSION LIMIT DURING NATURAL  
 GAS FIRING IN THE TURBINE WITH NO FUEL  
 FIRING IN THE DUCT BURNER. THIS EMISSION  
 LIMIT APPLIES AT ALL LOADS EXCEPT DURING  
 STARTUP AND SHUTDOWN (NOT TO EXCEED THREE  
 HOURS PER OCCURENCE). AMMONIA EMISSIONS

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

WILL BE CONTROLLED THROUGH PROPER OPERATION OF THE SCR.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: Continuous Emissions Monitor  
Parameter Monitored: AMMONIA  
Upper Permit Limit: 5.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)  
Reference Test Method: Appendix F  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 3-hour 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 57: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 57.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
Process: PC1

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

**Item 57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

2 PPM (BY VOLUME, DRY, CORRECTED TO 15% O<sub>2</sub>) CO EMISSION LIMIT DURING NATURAL GAS FIRING IN THE TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL WITH NO FIRING IN THE DUCT BURNER. THIS EMISSION LIMIT APPLIES AT ALL LOADS. RAVENSWOOD WILL USE CEM TO MONITOR CO EMISSIONS AT THE STACK.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 2.0 parts per million by volume  
 (dry, corrected to 15% O<sub>2</sub>)  
 Reference Test Method: Appendix F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR 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 58: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 58.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC2

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

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.057 LB/MMBTU

PM-10 emission limit during kerosene firing in the gas turbine based upon high heating value (hhv) of fuel with no fuel firing in the duct burner. facility will show compliance with pm-10 emissions limit by stack testing.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Parameter Monitored: PM-10  
 Upper Permit Limit: 0.057 pounds per million Btus  
 Reference Test Method: METH201/201A & 202  
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).



Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Condition 59: Compliance Certification**  
Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 59.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
Process: PC2

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

**Item 59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.014 pounds per million Btus OF SULFURIC ACID  
For the Gas Turbine alone firing Kerosene (Duct Burner  
OFF).

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.014 pounds per million Btus

Reference Test Method: Method 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 60: Compliance Certification**  
Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
Process: PC2

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

**Item 60.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Monitoring Description:

5 PPM (BY VOLUME, DRY, CORRECTED TO 15%O2)

CO emission limit during kerosene firing in the gas turbine based upon high heating value (hhv) of fuel with no fuel firing in the duct burner. Facility will use a CEM system to monitor co emissions at the stack.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 5.0 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: APPENDIX F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR 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 61: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 61.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC2

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

**Item 61.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

5 PPM (BY VOLUME, DRY, CORRECTED TO 15% O2)

Ammonia emission limit during kerosene firing in the turbine with no fuel firing in the duct burner. This emission limit applies at all loads except during startup and shutdown (not to exceed three hours per occurrence).

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Ammonia emissions will be controlled through proper operation of the SCR.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: Continuous Emissions Monitor  
 Parameter Monitored: AMMONIA  
 Upper Permit Limit: 5.0 parts per million by volume  
 (dry, corrected to 15% O2)  
 Reference Test Method: Appendix F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 3-hour 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 62: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 40CFR 75.11(e), Subpart B**

**Item 62.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC2

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

**Item 62.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

FACILITY KEROSENE USE WILL BE LIMITED TO AN EQUIVALENT OF 720 FULL POWER HRS/YR OR 8.2% OF ANNUAL POTENTIAL SINCE FACILITY QUALIFIES AS A "PRIMARY NATURAL GAS FIRED" (UNDER 40CFR 72.2), CONTINUOUS EMISSION MONITORING OF SO2 IS NOT REQUIRED. AN APPROVABLE ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-2, D-5 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Parameter Monitored: SULFUR DIOXIDE

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Upper Permit Limit: 0.044 pounds per million Btus  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR 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 63: Compliance Certification**  
 Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 63.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC3

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

**Item 63.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
 Monitoring Description:  
 0.021 LB/MMBTU PM-10 EMISSION LIMIT  
 DURING NATURAL GAS FIRING IN THE GAS  
 TURBINE BASED UPON HIGH HEATING VALUE  
 (HHV) OF FUEL. THIS EMISSION LIMIT  
 APPLIES TO TURBINE AND THE DUCT BURNER  
 OPERATING SIMULTANEOUSLY ON NATURAL GAS.  
 RAVENSWOOD WILL SHOW COMPLIANCE WITH  
 PM-10 EMISSION LIMIT BY STACK  
 TESTING.

THIS IS APPLICABLE FOR STEADY STATE  
 OPERATION, EXCLUDING PERIOD OF START-UP,  
 SHUT-DOWN AND FUEL TRANSFERS.

Parameter Monitored: PM-10  
 Upper Permit Limit: 0.021 pounds per million Btus  
 Reference Test Method: METH201/201A & 202  
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 64: Compliance Certification**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 64.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC3

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

**Item 64.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

0.0022 pounds per million Btus OF  
 SULFURIC ACID FOR THE GAS TURBINE WITH A  
 DUCT BURNER FIRING NATURAL GAS.

Parameter Monitored: SULFURIC ACID

Upper Permit Limit: 0.0022 pounds per million Btus

Reference Test Method: Method 8

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 65: Compliance Certification**

Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC3

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

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

5 PPM (BY VOLUME, DRY, CORRECTED TO 15%

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

O2) AMMONIA EMISSION LIMIT DURING NATURAL GAS FIRING IN THE TURBINE WITH DUCT BURNER FIRING. THIS EMISSION LIMIT APPLIES AT ALL LOADS EXCEPT DURING STARTUP AND SHUTDOWN (NOT TO EXCEED THREE HOURS PER OCCURRENCE). AMMONIA EMISSIONS WILL BE CONTROLLED THROUGH PROPER OPERATION OF THE SCR.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: Continuous Emissions Monitor

Parameter Monitored: AMMONIA

Upper Permit Limit: 5.0 parts per million by volume  
(dry, corrected to 15% O2)

Reference Test Method: Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-hour 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 66: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 66.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
Process: PC3

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

**Item 66.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

3.9 PPM (BY VOLUME, DRY, CORRECTED TO 15%O2) CO EMISSION LIMIT DURING NATURAL GAS FIRING IN THE GAS TURBINE BASED UPON HIGH HEATING VALUE (HHV) OF FUEL. THIS EMISSION LIMIT APPLIES TO TURBINE AND THE DUCT BURNER OPERATING SIMULTANEOUSLY ON NATURAL GAS. RAVENSWOOD WILL USE A CEM TO MONITOR CO EMISSIONS AT THE

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

STACK.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 3.9 parts per million by volume  
 (dry, corrected to 15% O2)  
 Reference Test Method: Appendix F  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR 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 67: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC4

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

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:  
 0.057 LB/MMBTU

PM-10 emission limit during kerosene firing based upon high heating value (hhv) of fuel. This emission limit applies to the turbine firing kerosene while the duct burner fires natural gas. Facility will show compliance with PM-10 emission limit by stack testing.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Parameter Monitored: PM-10  
 Upper Permit Limit: 0.057 pounds per million Btus  
 Reference Test Method: METH201/201A & 202  
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Averaging Method: 1-HOUR AVERAGE  
 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 68: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 68.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC4

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

**Item 68.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:  
 0.014 pounds per million Btus

SULFURIC ACID for the Gas Turbinewith duct burner firing  
 Kerosene.

Parameter Monitored: SULFURIC ACID  
 Upper Permit Limit: 0.014 pounds per million Btus  
 Reference Test Method: Method 8  
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 69: Compliance Certification**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 52.21(j), Subpart A**

**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001                      Emission Point: CC001  
 Process: PC4

Regulated Contaminant(s):



Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

5.4 PPM (BY VOLUME, DRY, CORRECTED TO 15%O2)

CO emission limit during Kerosene firing based upon high heating value (hhv) of fuel. This emission limit applies to the turbine firing Kerosene while the duct burner fires natural gas. Facility will use a CEM to monitor CO emissions at the stack.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: CEM

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 5.4 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR 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 70: Compliance Certification**

Effective between the dates of 04/28/2020 and 04/27/2025

**Applicable Federal Requirement: 40CFR 52.21(j), Subpart A**

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001

Emission Point: CC001

Process: PC4

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

**Item 70.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

5 PPM (BY VOLUME, DRY, CORRECTED TO 15% O<sub>2</sub>)

Ammonia emission limit during kerosene firing in the turbine with duct burner firing. This emission limit applies at all loads except during startup and shutdown (not to exceed three hours per occurrence). Ammonia emissions will be controlled through proper operation of the SCR.

THIS IS APPLICABLE FOR STEADY STATE OPERATION, EXCLUDING PERIOD OF START-UP, SHUT-DOWN AND FUEL TRANSFERS.

Manufacturer Name/Model Number: Continuous Emissions Monitor

Parameter Monitored: AMMONIA

Upper Permit Limit: 5.0 parts per million by volume  
(dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: Appendix F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-hour 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 71: Compliance Certification**

**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable Federal Requirement:40CFR 75.11(e), Subpart B**

**Item 71.1:**

The Compliance Certification activity will be performed for:

Emission Unit: U-CC001  
Process: PC4

Emission Point: CC001

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 71.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

FACILITY KEROSENE USE WILL BE LIMITED TO AN EQUIVALENT OF 720 FULL POWER HRS/YR OR 8.2% OF ANNUAL POTENTIAL SINCE FACILITY QUALIFIES AS A "PRIMARY NATURAL GAS FIRED" (UNDER 40CFR 72.2), CONTINUOUS EMISSION MONITORING OF SO<sub>2</sub> IS NOT

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REQUIRED. AN APPROVABLE ALTERNATIVE MONITORING METHOD IN ACCORDANCE WITH APPENDIX D OF 40 SUBPART 75, EPA FORMULA D-2, D-5 AND D-12 INCLUDING FUEL FLOW AND FUEL SULFUR CONTENT HAS BEEN DEVELOPED.

Parameter Monitored: SULFUR DIOXIDE  
Upper Permit Limit: 0.044 pounds per million Btus  
Monitoring Frequency: CONTINUOUS  
Averaging Method: 1-HOUR 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).

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Facility DEC ID: 2630400024

**STATE ONLY ENFORCEABLE CONDITIONS**

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

**NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

**Item A: Emergency Defense - 6 NYCRR 201-1.5**

An emergency, as defined in 6 NYCRR subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

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

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

(2) the equipment at the facility was being properly operated and maintained;

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

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

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

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

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

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

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

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

#### STATE ONLY APPLICABLE REQUIREMENTS

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

**Condition 72: Contaminant List**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable State Requirement: ECL 19-0301**

**Item 72.1:**

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: 007440-41-7  
Name: BERYLLIUM

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: 0NY075-00-5

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Name: PM-10

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY750-00-0

Name: CARBON DIOXIDE EQUIVALENTS

CAS No: 0NY998-00-0

Name: VOC

**Condition 1-4: Malfunctions and Start-up/Shutdown Activities**  
**Effective between the dates of 10/12/2023 and 04/27/2025**

**Applicable State Requirement: 6 NYCRR 201-1.4**

**Item 1-4.1:**

(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.

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Facility DEC ID: 2630400024

**Condition 1-5: Compliance Demonstration**  
**Effective between the dates of 10/12/2023 and 04/27/2025**

**Applicable State Requirement: 6 NYCRR 201-6.5 (a)**

**Item 1-5.1:**

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

Emission Unit: U-CC001	
Process: PC1	Emission Source: ESCC1
Emission Unit: U-CC001	
Process: PC2	Emission Source: ESCC1
Emission Unit: U-CC001	
Process: PC3	Emission Source: ESCC1
Emission Unit: U-CC001	
Process: PC4	Emission Source: ESCC1

**Item 1-5.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
 Monitoring Description:

In order to minimize greenhouse gas emissions from the combustion turbine, the facility owner or operator shall engage in an independent assessment and tuning of the combustion turbine once every three years. Each such tuning shall be conducted no more than 36 months from the date of the previous event. The facility owner or operator shall maintain a record of the date of each tuning and all work performed on the turbine at the facility for a period of at least five years from the date of the record. Records kept pursuant to this condition must be made available to the Department upon request.

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 1/30/2024.

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

**Condition 1-6: Compliance Demonstration**  
**Effective between the dates of 10/12/2023 and 04/27/2025**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Applicable State Requirement: 6 NYCRR 201-6.5 (a)**

**Item 1-6.1:**

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

Emission Unit: U-CC001  
Process: PC2

Emission Unit: U-CC001  
Process: PC4

Regulated Contaminant(s):  
CAS No: 0NY750-00-0 CARBON DIOXIDE EQUIVALENTS

**Item 1-6.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

a. In order to minimize greenhouse gas emissions from the indicated processes, distillate oil use is limited to 540 hours per year on a rolling 12-month total basis. The facility owner or operator shall compile and maintain a record of all distillate fuel fired in the processes described above. Such records shall include the date, time, and amount of fuel fired. The facility owner or operator shall keep all records generated pursuant to this condition at the facility for a period of at least five years from the date of the record.

b. In the event of an electric grid reliability issue, the facility owner or operator may suspend this limit for the duration of the reliability need. The facility owner or operator must notify the Department of each such situation as soon as practicable, but no later than two days from the start of the increased oil firing. The facility owner or operator shall indicate on the records described above if the distillate oil firing is due to an electric system reliability need.

c. Records kept pursuant to this condition must be made available to the Department upon request.

Parameter Monitored: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL  
Upper Permit Limit: 540 hours per year  
Monitoring Frequency: MONTHLY  
Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY  
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)



Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Reports due 30 days after the reporting period.  
The initial report is due 1/30/2024.  
Subsequent reports are due every 6 calendar month(s).

**Condition 74: Air pollution prohibited**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable State Requirement:6 NYCRR 211.1**

**Item 74.1:**

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

**Condition 75: Compliance Demonstration**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable State Requirement:6 NYCRR 242-1.5**

**Item 75.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 75.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators and, to the extent applicable, the CO<sub>2</sub> authorized account representative of each CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO<sub>2</sub> requirements:

(1) The owners and operators of each CO<sub>2</sub> budget source and each CO<sub>2</sub> budget unit at the source shall hold CO<sub>2</sub> allowances available for compliance deductions under Section 242-6.5, as of the CO<sub>2</sub> allowance transfer deadline, in the source's compliance account in an amount not less than the total CO<sub>2</sub> emissions for the control period from all CO<sub>2</sub> budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.

(2) Each ton of CO<sub>2</sub> emitted in excess of the CO<sub>2</sub> budget

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Facility DEC ID: 2630400024

emissions limitation shall constitute a separate violation of this Part and applicable state law.

(3) A CO2 budget unit shall be subject to the requirements specified in item 1 starting on the later, of January 1, 2009 or the date on which the unit commences operation.

(4) CO2 allowances shall be held in, deducted from, or transferred among CO2 Allowance Tracking System accounts in accordance with Subparts 242-5, 242-6, and 242-7, and Section 242-10.7.

(5) A CO2 allowance shall not be deducted, in order to comply with the requirements specified in item 1, for a control period that ends prior to the allocation year for which the CO2 allowance was allocated. A CO2 offset allowance shall not be deducted, in order to comply with the requirements under item 1, beyond the applicable percent limitations set out in 6NYCRR Part 242-6.5(a)(3).

(6) A CO2 allowance under the CO2 Budget Trading Program is a limited authorization by the Department or a participating state to emit one ton of CO2 in accordance with the CO2 Budget Trading Program. No provision of the CO2 Budget Trading Program, the CO2 budget permit application, or the CO2 budget permit or any provision of law shall be construed to limit the authority of the Department or a participating state to terminate or limit such authorization.

(7) A CO2 allowance under the CO2 Budget Trading Program does not constitute a property right.

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 76: Compliance Demonstration**  
**Effective between the dates of 04/28/2020 and 04/27/2025**

**Applicable State Requirement:6 NYCRR 242-1.5**

**Item 76.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 76.2:**

Compliance Demonstration shall include the following monitoring:

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators of the CO2 budget source and each CO2 budget unit at the source shall keep on site at the source each of the following documents for a period of 10 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 10 years, in writing by the department.

(i) The account certificate of representation for the CO2 authorized account representative for the source and each CO2 budget unit at the source and all documents that demonstrate the truth of the statements in the account certificate of representation, in accordance with 6 NYCRR Part 242-2.4, provided that the certificate and documents shall be retained on site at the source beyond such 10-year period until such documents are superseded because of the submission of a new account certificate of representation.

(ii) All emissions monitoring information, in accordance with Subpart 242-8 and 40 CFR 75.57.

(iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the CO2 Budget Trading Program.

(iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.

The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 Budget Trading Program, including those under Subpart 242-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

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

**Condition 1-7: Compliance Demonstration**  
**Effective between the dates of 10/12/2023 and 04/27/2025**

Permit ID: 2-6304-00024/00039

Facility DEC ID: 2630400024

**Applicable State Requirement: 6 NYCRR 251.3 (b)**

**Item 1-7.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-CC001

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 1-7.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

This will be for Emission Unit: UCC001

Poocess: PC1

Poocess: PC2

Poocess: PC3

Poocess: PC4

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 CO<sub>2</sub> per million Btu of input (input-based limit). These emission limits are measured on an annual basis, calculated by dividing the annual total of CO<sub>2</sub> 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.

Monitoring Description:

1. The facility is a major electric generating facility that has the capacity to combust both natural gas and oil, and is subject to 6 NYCRR Part 251, CO<sub>2</sub> Performance Standards for Major Electric Generating Facilities.
2. The facility operates a combustion gas turbine that is considered a non-modified existing source under 6 NYCRR Part 251.3(b).
3. 6 NYCRR Part 251.3(b) prohibits owners or operators from firing "any single fossil fuel, alone or in combination with any other fuel, with an emission rate

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that is greater than or equal to 1,800 pounds of CO<sub>2</sub> per MW hour (gross) electrical output or 180 pounds of CO<sub>2</sub> per million BTU of input", starting January 1 of 2021.

4. The facility has tentatively decided to calculate, record and report CO<sub>2</sub> emissions based on heat input. The 180 pound limit of CO<sub>2</sub> per million BTU will take effect on January 1, 2021. The facility may choose to change to the output-based limit by notifying the Department prior to January 1, 2021.

5. The facility shall monitor emissions of CO<sub>2</sub> by measuring and recording the heat input and computing CO<sub>2</sub> emissions using Eq G-4 under section 2.3 of 40 CFR Part 75, Appendix G (hourly heat input to estimate hourly CO<sub>2</sub> mass emissions) and Appendix F (Table 1 - F- and Fc-Factors). Appendix G calculation methods are an alternative to using a Continuous Emission Monitoring System (CEMS) to measure CO<sub>2</sub> in 40 CFR Part 75.13(b), where Part 251.5(b)(1) calls for the installation of CO<sub>2</sub> CEMS in accordance with 40 CFR Part 75.13.

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 180 pounds per million Btus

Reference Test Method: 40 CFR Part 75, Appendix G

Monitoring Frequency: CONTINUOUS

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2024.

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

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