

Facility DEC ID: 4381400052

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Title IV (Phase II Acid Rain)
Permit ID: 4-3814-00052/00003
Effective Date: 12/15/2021 Expiration Date: 12/14/2026

Permit Type: Air Title V Facility
Permit ID: 4-3814-00052/00009
Effective Date: 12/15/2021 Expiration Date: 12/14/2026

Permit Issued To:EMPIRE GENERATING CO LLC
75 RIVERSIDE AVE
PO BOX 350
RENSSELAER, NY 12144-0375

Facility: EMPIRE POWER PLANT
75 RIVERSIDE AVE
RENSSELAER, NY 12144

Contact: JANIS FALLON
75 RIVERSIDE AVE
RENSSELAER, NY 12144

Description:

This is the first renewal of the title V permit for Empire Power. This facility consists of two GE 7FA combustion turbine trains. Combustion turbines will fire natural gas and will have ultra low sulfur distillate oil available for backup use. Each train has a natural gas-fired heat recovery steam generator, oxidation catalyst/SCR for pollution control, and a separate stack. Ancillary equipment includes emergency engines (generator and fire pump), a cooling tower, and storage tanks for distillate oil and aqueous ammonia.

By acceptance of this permit, the permittee agrees that the permit is contingent upon strict compliance with the ECL, all applicable regulations, the General Conditions specified and any Special Conditions included as part of this permit.

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

Authorized Signature: _____ Date: ____ / ____ / ____

Facility DEC ID: 4381400052

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.

Facility DEC ID: 4381400052

PAGE LOCATION OF CONDITIONS

PAGE

DEC GENERAL CONDITIONS

General Provisions

- 4 1 Facility Inspection by the Department
- 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 4 HEADQUARTERS

Facility DEC ID: 4381400052

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

Facility DEC ID: 4381400052

submitted prior to actual transfer of ownership.

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

Item 4.1:

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

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

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

Condition 5: Submission of application for permit modification or renewal-REGION 4
HEADQUARTERS
Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 4 Headquarters
Division of Environmental Permits
1130 North Westcott Rd.
Schenectady, NY 12306-2014
(518) 357-2069

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: EMPIRE GENERATING CO LLC
75 RIVERSIDE AVE
PO BOX 350
RENSSELAER, NY 12144-0375

Facility: EMPIRE POWER PLANT
75 RIVERSIDE AVE
RENSSELAER, NY 12144

Authorized Activity By Standard Industrial Classification Code:
4911 - ELECTRIC SERVICES
4931 - ELEC & OTHER SERVICES COMBINED

Permit Effective Date: 12/15/2021

Permit Expiration Date: 12/14/2026

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

PAGE LOCATION OF CONDITIONS

PAGE

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

9	1	6 NYCRR 200.6: Acceptable Ambient Air Quality
10	2	6 NYCRR 201-6.4 (a) (7): Fees
10	3	6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
10	4	6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
11	5	6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
13	6	6 NYCRR 201-6.4 (e): Compliance Certification
15	7	6 NYCRR 202-2.1: Compliance Certification
15	8	6 NYCRR 202-2.5: Recordkeeping requirements
15	9	6 NYCRR 215.2: Open Fires - Prohibitions
17	10	6 NYCRR 200.7: Maintenance of Equipment
17	11	6 NYCRR 201-1.7: Recycling and Salvage
17	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
18	14	6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
18	15	6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
18	16	6 NYCRR 201-6.4 (a) (8): Right to Inspect
19	17	6 NYCRR 202-1.1: Required Emissions Tests
19	18	40 CFR Part 68: Accidental release provisions.
19	19	40CFR 82, Subpart F: Recycling and Emissions Reduction
20	20	6 NYCRR Subpart 201-6: Emission Unit Definition
20	21	6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
21	22	6 NYCRR 201-6.4 (f): Operational Flexibility
21	23	6 NYCRR 202-2.4: Emission statement methods and procedures
22	24	6 NYCRR 211.2: Visible Emissions Limited
22	25	6 NYCRR 225-1.2 (d): Compliance Certification
23	26	6 NYCRR 227-1.4 (a): Compliance Certification
24	27	6 NYCRR 231-2.5 (a): Compliance Certification
25	28	6 NYCRR 231-2.5 (a): Compliance Certification
26	29	40CFR 52.21(j), Subpart A: Compliance Certification
27	30	40CFR 52.21(j), Subpart A: Compliance Certification
28	31	40CFR 52.21(j), Subpart A: Compliance Certification
28	32	40CFR 52.21(j), Subpart A: Compliance Certification
29	33	40CFR 52.21(j), Subpart A: Compliance Certification
30	34	40CFR 52.21(j), Subpart A: Compliance Certification
31	35	40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
31	36	40CFR 60.12, NSPS Subpart A: Circumvention.
32	37	40CFR 60.15, NSPS Subpart A: Reconstruction
32	38	40CFR 60.19, NSPS Subpart A: Changes in time periods for submittal
32	39	40CFR 60.4206, NSPS Subpart III: Duration of emission standards for new stationary compression ignition IC engines
33	40	40CFR 60.4211(a), NSPS Subpart III: Compliance Certification
33	41	40CFR 60.4211(c), NSPS Subpart III: Compliance Certification
34	42	40CFR 60.4211(f), NSPS Subpart III: 4211(f)(1) - no

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

- 34 43 40CFR 60.4211(f), NSPS Subpart IIII: Compliance Certification
- 35 44 40CFR 60.4211(f), NSPS Subpart IIII: Compliance Certification
- 36 45 40CFR 60.4214(b), NSPS Subpart IIII: Compliance Certification
- 37 46 40CFR 60.4218, NSPS Subpart IIII: General Provisions
- 37 47 40CFR 60.4219, NSPS Subpart IIII: Compliance Certification
- 38 48 40CFR 60.4320(a), NSPS Subpart KKKK: Compliance Certification
- 39 49 40CFR 60.4320(a), NSPS Subpart KKKK: Compliance Certification
- 40 50 40CFR 60.4330, NSPS Subpart KKKK: Compliance Certification
- 41 51 40CFR 60.4330, NSPS Subpart KKKK: Compliance Certification
- 42 52 40CFR 60.4333, NSPS Subpart KKKK: Compliance Certification
- 43 53 40CFR 60.4375, NSPS Subpart KKKK: Compliance Certification
- 43 54 40CFR 60.4380, NSPS Subpart KKKK: Compliance Certification
- 44 55 40CFR 63.6590(c), Subpart ZZZZ: Stationary RICE
subject to Regulations under 40 CFR Part 60
- 45 56 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 46 57 40CFR 97.606, Subpart CCCCC: Compliance Certification
- 47 58 40CFR 97.1006, Subpart GGGGG: Compliance Certification
- Emission Unit Level**
- 48 59 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 49 60 6 NYCRR Subpart 201-6: Process Definition By Emission Unit

EU=1-CTDBR

- 52 61 6 NYCRR Subpart 201-6: Compliance Certification
- 53 62 6 NYCRR Subpart 201-6: Compliance Certification
- 54 63 6 NYCRR Subpart 201-6: Compliance Certification
- 55 64 6 NYCRR Subpart 201-6: Compliance Certification
- 56 65 6 NYCRR Subpart 201-6: Compliance Certification
- 57 66 6 NYCRR Subpart 201-6: Compliance Certification
- 57 67 6 NYCRR Subpart 201-6: Compliance Certification
- 58 68 6 NYCRR Subpart 201-6: Compliance Certification
- 59 69 6 NYCRR Subpart 201-6: Compliance Certification
- 60 70 40CFR 52.21(j), Subpart A: Compliance Certification
- 60 71 40CFR 52.21(j), Subpart A: Compliance Certification
- 61 72 40CFR 60.4365(a), NSPS Subpart KKKK: Compliance Certification
- 62 73 40CFR 72.6(a)(3)(i), Subpart A: Applicability of the
Title IV Acid Rain Regulations to a "new" generator unit which consists
of multiple emission sources.

EU=1-CTDBR,Proc=C01

- 62 74 6 NYCRR 231-2.5 (a): Compliance Certification
- 63 75 6 NYCRR 231-2.5 (a): Compliance Certification
- 64 76 6 NYCRR 231-2.5 (a): Compliance Certification
- 65 77 40CFR 52.21, Subpart A: Compliance Certification
- 66 78 40CFR 52.21(j), Subpart A: Compliance Certification
- 66 79 40CFR 52.21(j), Subpart A: Compliance Certification
- 67 80 40CFR 52.21(j), Subpart A: Compliance Certification
- 68 81 40CFR 52.21(j), Subpart A: Compliance Certification
- 69 82 40CFR 52.21(j), Subpart A: Compliance Certification
- 69 83 40CFR 52.21(j), Subpart A: Compliance Certification
- 70 84 40CFR 52.21(j), Subpart A: Compliance Certification
- 71 85 40CFR 52.21(j), Subpart A: Compliance Certification

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

71 86 40CFR 52.21(j), Subpart A: Compliance Certification

EU=1-CTDBR,Proc=C02

72 87 6 NYCRR 231-2.5 (a): Compliance Certification
 73 88 6 NYCRR 231-2.5 (a): Compliance Certification
 74 89 6 NYCRR 231-2.5 (a): Compliance Certification
 74 90 40CFR 52.21, Subpart A: Compliance Certification
 75 91 40CFR 52.21(j), Subpart A: Compliance Certification
 76 92 40CFR 52.21(j), Subpart A: Compliance Certification
 77 93 40CFR 52.21(j), Subpart A: Compliance Certification
 77 94 40CFR 52.21(j), Subpart A: Compliance Certification
 78 95 40CFR 52.21(j), Subpart A: Compliance Certification
 79 96 40CFR 52.21(j), Subpart A: Compliance Certification
 80 97 40CFR 52.21(j), Subpart A: Compliance Certification
 80 98 40CFR 52.21(j), Subpart A: Compliance Certification
 81 99 40CFR 52.21(j), Subpart A: Compliance Certification
 82 100 40CFR 52.21(j), Subpart A: Compliance Certification
 83 101 40CFR 52.21(j), Subpart A: Compliance Certification
 83 102 40CFR 52.21(j), Subpart A: Compliance Certification

EU=1-CTDBR,Proc=C03

84 103 6 NYCRR 231-2.5 (a): Compliance Certification
 85 104 6 NYCRR 231-2.5 (a): Compliance Certification
 86 105 6 NYCRR 231-2.5 (a): Compliance Certification
 86 106 40CFR 52.21, Subpart A: Compliance Certification
 87 107 40CFR 52.21(j), Subpart A: Compliance Certification
 88 108 40CFR 52.21(j), Subpart A: Compliance Certification
 89 109 40CFR 52.21(j), Subpart A: Compliance Certification
 90 110 40CFR 52.21(j), Subpart A: Compliance Certification
 90 111 40CFR 52.21(j), Subpart A: Compliance Certification
 91 112 40CFR 52.21(j), Subpart A: Compliance Certification
 92 113 40CFR 52.21(j), Subpart A: Compliance Certification
 92 114 40CFR 52.21(j), Subpart A: Compliance Certification
 93 115 40CFR 52.21(j), Subpart A: Compliance Certification

EU=1-MISCC

94 116 6 NYCRR 200.1 (cq): Compliance Certification
 95 117 40CFR 60.4207(b), NSPS Subpart IIII: Compliance Certification
 96 118 40CFR 60.4209(a), NSPS Subpart IIII: Compliance Certification
 96 119 40CFR 60.4211(f), NSPS Subpart IIII: Compliance Certification
 98 120 40CFR 60.4219, NSPS Subpart IIII: Compliance Certification
 98 121 40CFR 60.4219, NSPS Subpart IIII: Compliance Certification

EU=1-MISCC,Proc=C21

99 122 6 NYCRR 231-2.5 (a): Compliance Certification
 100 123 6 NYCRR 231-2.5 (a): Compliance Certification
 101 124 6 NYCRR 231-2.5 (a): Compliance Certification
 101 125 40CFR 52.21(j), Subpart A: Compliance Certification

EU=1-MISCC,Proc=C21,ES=EDG01

102 126 40CFR 60.4205(b), NSPS Subpart IIII: Compliance Certification

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

EU=1-MISCC,Proc=C21,ES=FIRE1

103 127 40CFR 60.4205(c), NSPS Subpart IIII: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

106 128 ECL 19-0301: Contaminant List
107 129 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
108 130 6 NYCRR 201-6.5 (a): CLCPA Applicability
108 131 6 NYCRR 211.1: Air pollution prohibited
108 132 6 NYCRR 242-1.5: Compliance Demonstration
110 133 6 NYCRR 242-1.5: Compliance Demonstration
111 134 6 NYCRR Subpart 242-4: Compliance Demonstration
112 135 6 NYCRR Subpart 242-8: Compliance Demonstration
114 136 6 NYCRR 242-8.5: Compliance Demonstration

Emission Unit Level

EU=1-CTDBR

116 137 6 NYCRR 251.3 (b): Compliance Demonstration

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

FEDERALLY ENFORCEABLE CONDITIONS

Renewal 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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 12/15/2021 and 12/14/2026**

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 12/15/2021 and 12/14/2026

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 12/15/2021 and 12/14/2026

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 12/15/2021 and 12/14/2026

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

reports required by the permit.

Condition 5: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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,

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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
NYSDEC Region 4 Headquarters
1130 North Westcott Road
Schenectady, NY 12306-2014

The address for the BQA is as follows:

NYSDEC
Bureau of Quality Assurance

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

625 Broadway
Albany, NY 12233-3258

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

Condition 7: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 202-2.1

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

Item 7.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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

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

Condition 8: Recordkeeping requirements
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 8.1:
(a) The following records shall be maintained for at least five years:

(1) a copy of each emission statement submitted to the department; and

(2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

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

Condition 9: Open Fires - Prohibitions
Effective between the dates of 12/15/2021 and 12/14/2026

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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.

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 10: Maintenance of Equipment
Effective between the dates of 12/15/2021 and 12/14/2026

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 12/15/2021 and 12/14/2026

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 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 12/15/2021 and 12/14/2026

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 12/15/2021 and 12/14/2026

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 12/15/2021 and 12/14/2026

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 12/15/2021 and 12/14/2026

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

Item 16.1:

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

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

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

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

(iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

compliance with the permit or applicable requirements.

Condition 17: Required Emissions Tests
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 17.1:

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

Condition 18: Accidental release provisions.
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40 CFR Part 68

Item 18.1:

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

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

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

Condition 19: Recycling and Emissions Reduction
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 82, Subpart F

Item 19.1:

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6**Item 20.1:**

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

Emission Unit: 1-CTDBR

Emission Unit Description:

This emission unit consists of two combustion turbines (CT) equipped with dry-low NO_x combustors. The CT exhaust gases will heat water circulating through the heat recovery steam generators (HRSG's) to produce steam. Each HRSG will contain a natural gas-fired duct burner that can be fired to produce steam in addition to the steam that is generated from the heat contained in the CT exhaust.

Building(s): COGENBLG

Item 20.2:

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

Emission Unit: 1-MISCC

Emission Unit Description:

This emission unit consists of miscellaneous regulated sources associated with the combined cycle power generation plant. Sources include a 1000 kW emergency diesel generator (EP00101), a 252 bhp firewater pump (EP00102), and a multi-cell mechanically induced draft wet/dry plume abatement cooling tower.

Building(s): DEMINBLG
OUTSIDE**Condition 21: Progress Reports Due Semiannually**

Effective between the dates of 12/15/2021 and 12/14/2026

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

(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 22: Operational Flexibility
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 22.1:

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 23: Emission statement methods and procedures
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 202-2.4

Item 23.1:

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

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

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

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

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

(NOTE: Emissions testing is generally not required for determining emissions to comply with

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

this regulation. When monitoring or testing data is available and has been validated and verified by the Department and is still applicable to the operations during the reporting period, this monitoring or testing data should be used to calculate emissions for this reporting requirement. In the absence of validated monitoring or testing data, the facility should use the emissions estimation method which would yield accurate emissions data.)

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

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

(d) The owner or operator may request that information submitted in emission statements be designated as a trade secret, in accordance with Part 616 of this Title. Data elements not considered to be confidential include: emissions, estimated emissions method, and the SCC. The Department will evaluate claims for confidentiality in accordance with Part 616 of this Title.

Condition 24: Visible Emissions Limited
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 211.2

Item 24.1:

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 25: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

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 or operators of emission sources that fire distillate oil are limited to a 0.0015 percent sulfur content by weight of the fuel. Compliance with the sulfur-in-fuel limitation is based on fuel vendor

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

receipts. All fuel vendor receipts must be maintained on site or at a Department approved alternative location for a minimum of five years.

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
 Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.0015 percent by weight
 Monitoring Frequency: PER DELIVERY
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 26: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 26.1:

The Compliance Certification activity will be performed for the Facility.

Item 26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil firing emission sources subject to 6 NYCRR Subpart 227-1 which do not employ a continuous opacity monitor for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack for each emission source 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 the emission point
 - weather conditions
 - was a plume observed?

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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) for two consecutive days while 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 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: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 27: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 27.1:

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

Emission Unit: 1-CTDBR

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

Item 27.2:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to meet the LAER (Lowest Achievable Emission Rate) requirements as stated in 231-2.5(a), the total emissions of VOC (as propane) from emission points 0100A and 0100B for the combustion turbines and duct burners shall not exceed 71.1 tons per year rolled daily. Total emissions shall include startup and shutdown emissions.

The daily emissions shall be calculated using daily fuel records and emission factors that are determined during an approved performance test which was completed within the first twelve months of operation.

Records shall include the calculations and supporting data and shall be kept on site and be readily available to the NYSDEC.

Monitoring Frequency: DAILY

Averaging Method: ANNUAL TOTAL ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 28: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 28.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

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

Item 28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to meet the LAER (Lowest Achievable Emission Rate) requirements as stated in 231-2.5(a), the total emissions of NOx from emission points 0100A and 0100B for the combustion turbines and duct burners shall not exceed 209.8 tons per year rolled daily. Total emissions shall

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

NYSDEC.

Reference Test Method: ASTM D4856 -99
Monitoring Frequency: DAILY
Averaging Method: ANNUAL TOTAL ROLLED DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 30: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 30.1:

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

Emission Unit: 1-CTDBR

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

Item 30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

In order to meet the BACT (Best Available Control Technology) requirements as stated in 40CFR52.21, the total emissions of PM-10 from emission points 0100A and 0100B for the combustion turbines and duct burners shall not exceed 244.7 tons per year rolled daily. Total emissions shall include startup and shutdown emissions.

The daily emissions shall be calculated using daily fuel use records, fuel sulfur analyses, and emission factors that are determined during an approved performance test to be completed within the term of the Title V permit.

Records shall include the calculations and supporting data and shall be kept on site and be readily available to the NYSDEC.

Reference Test Method: Method 5
Monitoring Frequency: DAILY
Averaging Method: ANNUAL TOTAL ROLLED DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to meet the BACT (Best Available Control Technology) requirements as stated in 40CFR52.21, the total emissions of Particulate Matter (PM) from emission points 0100A and 0100B for the combustion turbines and duct burners shall not exceed 244.7 tons per year rolled daily. Total emissions shall include startup and shutdown emissions.

The daily emissions shall be calculated using daily fuel use records, fuel sulfur analyses, and emission factors that are determined during an approved performance test to be completed within the term of the Title V permit.

Records shall include the calculations and supporting data and shall be kept on site and be readily available to the NYSDEC.

Reference Test Method: Method 5

Monitoring Frequency: DAILY

Averaging Method: ANNUAL TOTAL ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 33: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 33.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to meet the BACT (Best Available Control Technology) requirements as stated in 40CFR52.21, the total emissions of carbon monoxide from emission points 0100A and 0100B for the combustion turbines and duct burners shall not exceed 76.7 tons per year rolled daily. Total emissions shall include startup and shutdown emissions.

The daily emissions shall be determined using the heat input values determined by Part 75 and by using the CO concentrations as measured using Part 60.

Records shall include the calculations and supporting data and shall be kept on site and be readily available to the NYSDEC.

Monitoring Frequency: DAILY

Averaging Method: ANNUAL TOTAL ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 34: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 34.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 007664-41-7 AMMONIA

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to meet the BACT (Best Available Control Technology) requirements as stated in 40CFR52.21, the total emissions of ammonia from emission points 0100A and 0100B for the combustion turbines and duct burners shall not exceed 110.9 tons per year rolled daily. Total

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

emissions shall include startup and shutdown emissions.

The daily emissions shall be determined using the heat input calculated using the methods in Part 75 and using the calculated ammonia concentration. A surrogate system for direct ammonia slip monitoring continuously monitors NOx before and after the SCR and continuously monitors the ammonia feed rate and calculates ammonia slip concentration after the SCR.

Records shall include the calculations and supporting data and shall be kept on site and be readily available to the NYSDEC.

Monitoring Frequency: DAILY
Averaging Method: ANNUAL TOTAL ROLLED DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

**Condition 35: EPA Region 2 address.
Effective between the dates of 12/15/2021 and 12/14/2026**

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 35.1:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

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

**Condition 36: Circumvention.
Effective between the dates of 12/15/2021 and 12/14/2026**

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 36.1:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 37: Reconstruction**Effective between the dates of 12/15/2021 and 12/14/2026****Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A****Item 37.1:**

The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

Condition 38: Changes in time periods for submittal**Effective between the dates of 12/15/2021 and 12/14/2026****Applicable Federal Requirement:40CFR 60.19, NSPS Subpart A****Item 38.1:**

Changes in time periods for submittal of information and postmark deadlines set forth in 40 CFR 60, Subpart A, may be made only upon approval by the Administrator and shall follow procedures outlined in 40 CFR Part 60.19.

**Condition 39: Duration of emission standards for new stationary
compression ignition IC engines****Effective between the dates of 12/15/2021 and 12/14/2026****Applicable Federal Requirement:40CFR 60.4206, NSPS Subpart III**

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 41.1:

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

Emission Unit: 1-MISCC

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners or operators of a 2007 model year and later stationary CI internal combustion engine and must comply with the emission standards specified in §60.4204(b) or §60.4205(b), or if you are an owner or operator of a CI fire pump engine that is manufactured during or after the model year that applies to your fire pump engine power rating in table 3 to this subpart and must comply with the emission standards specified in §60.4205(c), must comply by purchasing an engine certified to the emission standards in §60.4204(b), or §60.4205(b) or (c), as applicable, for the same model year and maximum (or in the case of fire pumps, NFPA nameplate) engine power.

The engine must be installed and configured according to the manufacturer's specifications.

The manufacturer's certification of compliance with the emission standards specified in 40 CFR 60 Subpart IIII for major pollutants will be sent to the Department prior to commencement of operation of the engines.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

**Condition 42: 4211(f)(1) - no time limit for emergency engines
Effective between the dates of 12/15/2021 and 12/14/2026**

Applicable Federal Requirement:40CFR 60.4211(f), NSPS Subpart IIII

Item 42.1:

There is no time limit on the use of emergency stationary ICE in emergency situations unless otherwise prohibited by other permit conditions.

**Condition 43: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026**

Applicable Federal Requirement:40CFR 60.4211(f), NSPS Subpart IIII

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emission Unit: 1-MISCC

Regulated Contaminant(s):

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

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the facility owns or operates an emergency stationary ICE, the facility must operate the emergency stationary ICE according to the requirements in 40 CFR Part 60.4211(f)(1) and (f)(2)(i). In order for the engine to be considered an emergency stationary ICE, any operation other than emergency operation, maintenance and testing, as described in 40 CFR Part 60.4211(f)(1) and (f)(2)(i) is prohibited. If the facility does not operate the engine according to the requirements in 40 CFR Part 60.4211(f)(1) and (f)(2)(i) the engine will not be considered an emergency engine under this condition and must meet all requirements in 40 CFR Part 60, Subpart IIII for non-emergency engines.

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 1/30/2022.

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

Condition 45: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4214(b), NSPS Subpart IIII

Item 45.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-MISCC

Item 45.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For stationary CI internal combustion engines that are emergency stationary internal combustion engines, the owner or operator is not required to submit an initial notification.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Starting with the model years in table 5 to this subpart, if the emergency engine does not meet the standards applicable to non-emergency engines in the applicable model year, the owner or operator must keep records of the operation of the engine in emergency and non-emergency service that are recorded through the non-resettable hour meter.

The owner must record the time of operation of the engine and the reason the engine was in operation during that time.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 46: General Provisions

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4218, NSPS Subpart III

Item 46.1:

Table 8 of Subpart III shows which parts of the general provisions in §§60.1-60.19 (Subpart A) apply to any facility that is subject to 40 CFR 60, Subpart III.

Condition 47: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4219, NSPS Subpart III

Item 47.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-MISCC

Regulated Contaminant(s):

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

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emergency stationary internal combustion engine means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) of this definition. All emergency stationary ICE must comply with the requirements specified in §60.4211(f)(1) and (f)(2)(i)

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

in order to be considered emergency stationary ICE. If the engine does not comply with the requirements specified in §60.4211(f)(1) and (f)(2)(i), then it is not considered to be an emergency stationary ICE under this subpart.

(1) The stationary ICE is operated to provide electrical power or mechanical work during an emergency situation. Examples include stationary ICE used to produce power for critical networks or equipment (including power supplied to portions of a facility) when electric power from the local utility (or the normal power source, if the facility runs on its own power production) is interrupted, or stationary ICE used to pump water in the case of fire or flood, etc.

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 1/30/2022.

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

Condition 48: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4320(a), NSPS Subpart KKKK

Item 48.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Process: C02

Regulated Contaminant(s):

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

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

For a facility with a combustion turbine that meets the following criteria:

- 1) Commences construction after February 18, 2005,
- 2) Firing fuels other than natural gas, and
- 3) If the combustion turbine heat input at peak load (HHV) is greater than or equal to 850 mmBtu/hr -

The facility must not exceed the NO_x emission standard of 42 ppm at 15% O₂.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Compliance with this emission standard shall be determined through the use of a continuous emissions monitor as stated in §60.4335(b)(1), operated according to the requirements in §60.4345, and then compared to the emission limit as stated in §60.4350.

Manufacturer Name/Model Number: TAPI / T200 EM
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 42 parts per million by volume (dry, corrected to 15% O2)
 Reference Test Method: Part 60 App. B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 30-DAY ROLLING AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 49: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 60.4320(a), NSPS Subpart KKKK

Item 49.1:

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

Emission Unit: 1-CTDBR
 Process: C01

Emission Unit: 1-CTDBR
 Process: C03

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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

For a facility with a combustion turbine that meets the following criteria:

- 1) Commences construction after February 18, 2005,
- 2) Firing natural gas, and
- 3) If the combustion turbine heat input at peak load (HHV) is greater than or equal to 850 mmBtu/hr -

The facility must not exceed the NOx emission standard of 15 ppm at 15% O2.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Compliance with this emission standard shall be determined through the use of a continuous emissions monitor as stated in §60.4335(b)(1), operated according to the requirements in §60.4345, and then compared to the emission limit as stated in §60.4350.

Manufacturer Name/Model Number: TAPI / T200 EM

Parameter Monitored: OXIDES OF NITROGEN

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

Reference Test Method: Part 60 App. B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 50: Compliance Certification**Effective between the dates of 12/15/2021 and 12/14/2026****Applicable Federal Requirement: 40CFR 60.4330, NSPS Subpart KKKK****Item 50.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Process: C02

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 50.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must not burn in any stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 0.06 lb of sulfur dioxide/mmBtu of heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

Compliance with this limit when burning fuel oil shall be demonstrated through the measurement of sulfur contained in the fuel prior to combustion. Performance tests must be performed according to the methods described in §60.4415.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

For fuel oil, use one of the total sulfur sampling options and the associated sampling frequency described in sections 2.2.3, 2.2.4.1, 2.2.4.2, and 2.2.4.3 of appendix D to 40 CFR Part 75 (i.e. , flow proportional sampling, daily sampling, sampling from the unit's storage tank after each addition of fuel to the tank, or sampling each delivery prior to combining it with fuel oil already in the intended storage tank).

Process Material: FUEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: .06 pounds per million Btus

Monitoring Frequency: PER DELIVERY

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

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 51: Compliance Certification**Effective between the dates of 12/15/2021 and 12/14/2026****Applicable Federal Requirement:40CFR 60.4330, NSPS Subpart KKKK****Item 51.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: 1-CTDBR

Process: C01

Emission Unit: 1-CTDBR

Process: C03

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 51.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility must not burn in any stationary combustion turbine any fuel which contains total potential sulfur emissions in excess of 0.06 lb of sulfur dioxide/mmBtu of heat input. If the turbine simultaneously fires multiple fuels, each fuel must meet this requirement.

Compliance with this limit shall be demonstrated through the measurement of sulfur contained in the fuel prior to

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

combustion. Performance tests must be performed according to the methods described in §60.4415. The facility may elect to seek an exemption from sulfur monitoring according to the provisions listed in §60.4365 which states that the facility must provide a current, valid purchase contract, tariff sheet, or transportation contract which specifies that the maximum total sulfur content for natural gas is less than 20 grains of sulfur/100 scf of natural gas.

Process Material: NATURAL GAS
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 20 grains per 100 scf
Monitoring Frequency: DAILY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 52: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4333, NSPS Subpart KKKK

Item 52.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 52.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator shall operate and maintain the combustion turbines and associated air pollution control equipment and monitoring equipment in a manner consistent with good air pollution control practices for minimizing emissions at all times including during startup, shutdown, and malfunction.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 53: Compliance Certification

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4375, NSPS Subpart KKKK

Item 53.1:

The Compliance Certification activity will be performed for the Facility.

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(a) For each affected unit required to continuously monitor parameters or emissions, or to periodically determine the fuel sulfur content under this subpart, you must submit reports of excess emissions and monitor downtime, in accordance with §60.7(c). Excess emissions must be reported for all periods of unit operation, including start-up, shutdown, and malfunction.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 54: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4380, NSPS Subpart KKKK

Item 54.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For the purpose of reports required under §60.7(c), periods of excess emissions and monitor downtime that must be reported are defined as follows:

Excess NO_x emissions shall be defined as any 30-day operating period in which the 30-day rolling average NO_x

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

concentration exceeds an applicable emissions limit. A 30-day rolling average NO_x emission rate is the arithmetic average of all hourly NO_x emission data in ppm measured by the continuous monitoring equipment for a given day and the twenty-nine-unit operating days immediately preceding that unit operating day. A new 30-day average is calculated each unit operating day as the average of all hourly NO_x emission rates for the preceding 30 unit operating days if a valid NO_x emission rate is obtained for at least 75% of all operating hours. A period of monitor downtime shall be any unit operating hour in which sufficient data are not obtained to validate the hour for either NO_x or O₂ (or both).

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 1/30/2022.

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

Condition 55: Stationary RICE subject to Regulations under 40 CFR Part 60

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 63.6590(c), Subpart ZZZZ

Item 55.1:

An affected source that meets any of the criteria listed below must meet the requirements of this part by meeting the requirements of 40 CFR part 60 subpart IIII, for compression ignition engines or 40 CFR part 60 subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

- new or reconstructed stationary RICE located at an area source,
- new or reconstructed 2SLB stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- new or reconstructed 4SLB stationary RICE with a site rating of less than 250 brake horsepower located at a major source of HAP emissions,
- new or reconstructed spark ignition 4 stroke rich burn (4SRB) stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- new or reconstructed stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis,
- new or reconstructed emergency or limited use stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions,
- new or reconstructed compression ignition (CI) stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions.

Condition 56: Compliance Certification

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 97.406, Subpart AAAAA

Item 56.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

the facilities compliance account, TR NOx Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 57: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 97.606, Subpart CCCCC

Item 57.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

year.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 58: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 97.1006, Subpart GGGGG

Item 58.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

(2) The facility, and the designated representative, of each CSAPR NO_x Ozone Season Group 3 source (facility) and each CSAPR NO_x Ozone Season Group unit at the facility must comply with the monitoring, reporting, and recordkeeping requirements of §§97.1030 through 97.1035 of Subpart GGGGG and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

required monitoring systems; requirements for recording, reporting, and quality assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are to be submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are to be submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 59: Emission Point Definition By Emission Unit
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 59.1:

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

Emission Unit: 1-CTDBR

Emission Point: 0100A

Height (ft.): 248 Diameter (in.): 228
 NYTMN (km.): 4720.007 NYTME (km.): 602.613 Building: OUTSIDE

Emission Point: 0100B

Height (ft.): 248 Diameter (in.): 228
 NYTMN (km.): 4719.998 NYTME (km.): 602.65 Building: OUTSIDE

Item 59.2:

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emission Unit: 1-MISCC

Emission Point: 00101

Height (ft.): 76 Diameter (in.): 20
 NYTMN (km.): 4720.023 NYTME (km.): 602.689 Building: OUTSIDE

Emission Point: 00102

Height (ft.): 16 Diameter (in.): 6
 NYTMN (km.): 4720.02 NYTME (km.): 602.69 Building: DEMINBLG

Emission Point: 00105

Height (ft.): 70 Diameter (in.): 1375
 NYTMN (km.): 4719.93 NYTME (km.): 602.74 Building: OUTSIDE

Condition 60: Process Definition By Emission Unit
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 60.1:

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

Emission Unit: 1-CTDBR

Process: C01 Source Classification Code: 2-01-002-09

Process Description:

This process consists of one or two combustion turbines (CTRB1 and/or CTRB2) firing natural gas. Each combustion turbine is equipped with dry low NOx combustors. Nitrogen oxides are further controlled with the use of selective catalytic reduction (SCR01 and SCR02). Carbon monoxide and VOC are controlled with oxidation catalyst (OXCT1 and OXCT2).

Emission Source/Control: CTRB1 - Combustion
 Design Capacity: 2,099 million Btu per hour

Emission Source/Control: CTRB2 - Combustion
 Design Capacity: 2,099 million Btu per hour

Emission Source/Control: OXCT1 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control
 Control Type: CATALYTIC OXIDATION

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

Emission Source/Control: SCR02 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 60.2:

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

Emission Unit: 1-CTDBR

Process: C02

Source Classification Code: 2-01-001-09

Process Description:

This process consists of one or two combustion turbines (CTRB1 and/or CTRB2) firing low sulfur distillate oil. Nitrogen oxides are controlled during oil firing by water injection and selective catalytic reduction (SCR01 and SCR02). Carbon monoxide and VOC are controlled with oxidation catalyst (OXCT1 and OXCT2). The combustion turbines are required to fire low sulfur distillate oil with a maximum sulfur content of 0.0015% sulfur.

Emission Source/Control: CTRB1 - Combustion

Design Capacity: 2,099 million Btu per hour

Emission Source/Control: CTRB2 - Combustion

Design Capacity: 2,099 million Btu per hour

Emission Source/Control: OXCT1 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control

Control Type: CATALYTIC OXIDATION

Emission Source/Control: SCR01 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Emission Source/Control: SCR02 - Control

Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 60.3:

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

Emission Unit: 1-CTDBR

Process: C03

Source Classification Code: 2-01-002-09

Process Description:

This process consists of one or two combustion turbines/heat recovery steam generator trains (CTRB1/DBRN1 and/or CTRB2/DBRN2) firing natural gas in both the combustion turbine and duct burner. Each combustion turbine is equipped with dry low NOx combustors. In addition, nitrogen oxides are further controlled with the use of selective catalytic reduction (SCR01 and SCR02). Carbon monoxide and VOC are controlled with oxidation catalysts (OXCT1 and OXCT2).

Emission Source/Control: CTRB1 - Combustion

Design Capacity: 2,099 million Btu per hour

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emission Source/Control: CTRB2 - Combustion
 Design Capacity: 2,099 million Btu per hour

Emission Source/Control: DBRN1 - Combustion
 Design Capacity: 646 million Btu per hour

Emission Source/Control: DBRN2 - Combustion
 Design Capacity: 646 million Btu per hour

Emission Source/Control: OXCT1 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control
 Control Type: CATALYTIC OXIDATION

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

Emission Source/Control: SCR02 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 60.4:

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

Emission Unit: 1-CTDBR
 Process: C04 Source Classification Code: 2-01-001-09
 Process End Date: 12/10/2018
 Process Description:

THIS PROCESS CONSISTS OF ONE OR TWO COMBUSTION TURBINES/HEAT RECOVERY STEAM GENERATOR TRAINS (CTRB1/DBRN1 AND CTRB2/DBRN2) FIRING LOW SULFUR DISTILLATE OIL IN BOTH THE COMBUSTION TURBINE(S) AND DUCT BURNER(S). NITROGEN OXIDES ARE CONTROLLED DURING DISTIL LATE FIRING WITH WATER INJECTION AND SELECTIVE CATALYTIC OXIDATION (SCR01 AND SCR02). CARBON MONOXIDE AND VOC ARE CONTROLLED WITH OXIDATION CATALYST (OXCT1 AND OXCT2). THESE COMBUSTION TURBINES ARE REQUIRED TO FIRE A LOW SULFUR DISTILLATE OIL (0.05% SUL FUR).

Emission Source/Control: CTRB1 - Combustion
 Design Capacity: 2,099 million Btu per hour

Emission Source/Control: CTRB2 - Combustion
 Design Capacity: 2,099 million Btu per hour

Emission Source/Control: DBRN1 - Combustion
 Design Capacity: 646 million Btu per hour

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emission Source/Control: DBRN2 - Combustion
 Design Capacity: 646 million Btu per hour

Emission Source/Control: OXCT1 - Control
 Control Type: CATALYTIC OXIDATION

Emission Source/Control: OXCT2 - Control
 Control Type: CATALYTIC OXIDATION

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

Emission Source/Control: SCR02 - Control
 Control Type: SELECTIVE CATALYTIC REDUCTION (SCR)

Item 60.5:

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

Emission Unit: 1-MISCC
 Process: C21 Source Classification Code: 2-01-001-02
 Process Description:

This process is the combustion of diesel fuel oil in a 1,000 kW emergency diesel generator (EDG01), used to provide electrical power to critical systems in the event of a power failure, and a 252 hp firewater pump engine (FIRE1). This process only operates during emergencies and for brief periods during non-emergency periods in order to perform maintenance of the equipment.

Emission Source/Control: EDG01 - Combustion
 Design Capacity: 1,000 kilowatts

Emission Source/Control: FIRE1 - Combustion
 Design Capacity: 252 horsepower (mechanical)

Item 60.6:

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

Emission Unit: 1-MISCC
 Process: C24 Source Classification Code: 3-85-882-01
 Process Description:

This process is for the wet/dry, induced draft, plume abatement cooling tower that is used to provide cooling water for the condenser. The cooling tower components include a basin, fans, fan decks, drift eliminators, fill material (baffles), and dry coil.

Emission Source/Control: CTWR1 - Process

Condition 61: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for carbon monoxide (CO) and shall limit the emissions of CO during periods of startup to no more than 1000 pounds for the entire startup event (not to exceed 6 hours per startup) while firing natural gas.

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

Manufacturer Name/Model Number: TAPI / T300EM

Upper Permit Limit: 1000 pounds

Reference Test Method: PART 60 APP B AND F

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 1/30/2022.

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

Condition 62: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

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

Item 62.2:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Startup is defined as the period from the point when the flame is initiated to when the combustion turbine has reached 50% load or greater and has been in compliance with NOx, NH3, and CO steady-state permit limits for five consecutive minutes, or when the turbine is brought back to above 50% load from its lowest load after a trip occurrence, not to exceed six hours per occurrence. During a trip occurrence, only the time from when the turbine starts increasing load until the combustion turbine has reached 50% load or greater and has been in compliance with NOx, NH3, and CO steady state permit limits for five consecutive minutes is considered a startup period. Shutdown limits shall apply to each turbine.

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

Parameter Monitored: DURATION OF START UP

Upper Permit Limit: 6 hours

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 63: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY210-00-0	OXIDES OF NITROGEN
CAS No: 007664-41-7	AMMONIA

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility shall collect and submit to the Department data for at most 15 start-up and 15 shutdown events when firing oil in the combustion turbine. If deemed necessary by the Department after reviewing the submitted data, the permittee shall submit a permit modification to establish enforceable combustion turbine start-up and shutdown emission rates for CO, NOx, and ammonia and, if requested by the Department, confirm that such established rates will not result in a violation of applicable national ambient air quality standards(NAAQS).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 64: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 64.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007664-41-7	AMMONIA
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 64.2:

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 from the point when the stop signal is initiated until the flame is extinguished in the combustion turbine, or when the turbine trips and the turbine load momentarily drops below 50% load before being brought back to above 50% load, not to exceed one hour per occurrence. Shutdown limits shall apply to each turbine.

The facility shall record the date and time of each shutdown event. During a turbine trip occurrence only the time from when the turbine trips to when the turbine

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

reaches its lowest load before being brought back to above 50% load is considered a shutdown period. A report consisting of the recorded information shall be submitted to the Department with the facility's required excess emissions report. All records shall be maintained and readily available for a minimum of five years.

Parameter Monitored: DURATION OF SHUTDOWN

Upper Permit Limit: 1 hours

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 65: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

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

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for nitrogen oxides (NO_x) and shall limit the emissions of NO_x during periods of shutdown to no more than 100 pounds for the entire shutdown event (not to exceed 1 hour per shutdown) while firing natural gas.

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

Manufacturer Name/Model Number: TAPI / T200EM

Upper Permit Limit: 100 pounds

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 66: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 66.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for carbon monoxide (CO) and shall limit the emissions of CO during periods of shutdown to no more than 75 pounds for the entire shutdown event (not to exceed 1 hour per shutdown) while firing natural gas.

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

Manufacturer Name/Model Number: TAPI / T300EM

Upper Permit Limit: 75 pounds

Reference Test Method: PART 60 APP B AND F

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 1/30/2022.

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

Condition 67: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for ammonia (NH₃) and shall limit the emissions of NH₃ during periods of shutdown to no more than 20 pounds for the entire shutdown event (not to exceed 1 hour per shutdown) while firing natural gas.

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

Manufacturer Name/Model Number: Calculated

Upper Permit Limit: 20 pounds

Reference Test Method: PART 60 APP B AND F

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 1/30/2022.

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

Condition 69: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

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

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The facility shall install, calibrate, maintain, and operate a continuous emissions monitor for nitrogen oxides (NO_x) and shall limit the emissions of NO_x during periods of startup to no more than 1000 pounds for the entire startup event (not to exceed 6 hours per startup) while firing natural gas.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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: TAPI / T200EM
 Upper Permit Limit: 1000 pounds
 Reference Test Method: PART 60 APP B AND F
 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 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 70: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 70.1:
 The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007446-09-5	SULFUR DIOXIDE
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY075-00-0	PARTICULATES

Item 70.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

For each combustion turbine train, the duct burner may not operate unless the combustion turbine is at 70% load. The minimum allowable continuous load during normal operation for each duct burner is 10% during firing of natural gas. The turbine and duct burner loads shall be continuously monitored to demonstrate compliance with this requirement.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 71: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 007446-09-5	SULFUR DIOXIDE
CAS No: 0NY075-00-5	PM-10
CAS No: 0NY075-00-0	PARTICULATES

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The minimum allowable continuous load during normal operation for the combustion turbine during the firing of natural gas is 50%. The turbine load shall be continuously recorded to demonstrate compliance with this requirement.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 72: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 007446-09-5	SULFUR DIOXIDE
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Item 72.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

The facility must use the fuel quality characteristics in a current, valid purchase contract, tariff sheet, or

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

transportation contract for the fuel, specifying that:

- 1) The maximum total sulfur content for oil use is 0.05% by weight (500 ppmw) or less, or
- 2) The total sulfur content for natural gas use is 20 grains of sulfur or less per 100 standard cubic feet, or
- 3) Has potential sulfur emissions of less than 26 ng SO₂/J (0.060 lb SO₂/mmBtu) heat input.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 73: Applicability of the Title IV Acid Rain Regulations to a "new" generator unit which consists of multiple emission sources.

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 72.6(a)(3)(i), Subpart A

Item 73.1:

This Condition applies to Emission Unit: 1-CTDBR

Item 73.2:

This emission source is part of an affected unit and is subject to the requirements of the Acid Rain Program. These requirements are included in 40 CFR Parts 72, 73, 74, 75, 76, 77, and 78.

Condition 74: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 231-2.5 (a)

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C01

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

VOC emissions from process C01 shall not exceed 1.0 ppmvd at 15% oxygen, including during periods of startup or shutdown in order to comply with the lowest achievable emission rate (LAER) requirements. This emission limit is met through the application of an oxidation catalyst. A compliance stack test was performed within 180 days of combustion turbine startup and shall be performed every five years thereafter. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Proper operation of the oxidation catalyst shall be demonstrated on a continuous basis through a carbon monoxide continuous monitoring device required elsewhere in this permit.

Upper Permit Limit: 1.0 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: EPA Methods 25A, 18, and/or 320

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 75: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C01

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

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NO_x emissions from process C01 shall not exceed 2.0 ppmvd at 15% oxygen, except during periods of startup or shutdown, in order to comply with the lowest achievable emission rate (LAER) requirements. This emission limit is met through the application of dry low-NO_x combustors and selective catalytic reduction and shall demonstrate compliance with the limit through the use of a continuous emissions monitoring device which shall be operated and maintained according to the provisions in 40 CFR Part 75.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Manufacturer Name/Model Number: TAPI / T200 EM
Upper Permit Limit: 2.0 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: PART 60 APP B AND F
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR ROLLING AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C01

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

Item 76.2:

Compliance Certification shall include the following monitoring:

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

NO_x emissions from process C01 shall not exceed 14.59 lb/hr for each turbine, except during periods of startup or shutdown in order to comply with the best available control technology (BACT) requirements as listed in 6 NYCRR Part 231. This emission limit is met through the application of selective catalytic reduction and the limit will be continuously measured using a continuous emissions monitor which will be operated and maintained according to the provisions in Part 75.

Manufacturer Name/Model Number: TAPI / T200 EM
Upper Permit Limit: 14.59 pounds per hour
Reference Test Method: Part 60 APP B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 3-HOUR ROLLING AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 77: Compliance Certification

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C01

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

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Ammonia emissions from the combustion turbine trains shall not exceed 5.0 ppmvd at 15% oxygen, except during periods of startup or shutdown, as good operating practice for the selective catalytic reduction (SCR) required for NOx LAER and BACT. A continuous emissions monitoring system shall be used to determine compliance with this limit. A surrogate system for direct ammonia slip monitoring continuously monitors NOx before and after the SCR and continuously monitors the ammonia feed rate. Ammonia slip concentration after the SCR is calculated utilizing the following equation:

$$NH3Adj. = ((A - (B * C / 1,000,000)) * (1,000,000 / B)) * D$$

Where,

- NH3Adj. = NH3, ppmvd
- A = NH3 Injection rate (lb/hr)/17 lb/lb-mol
- B = Dry Exhaust Flow Rate (lb/hr)/29 lb/lb-mol
- C = Change in NOx ppmvd across the catalyst (Inlet NOx - Outlet NOx)
- D = Correction factor = RM avg./CEMS avg.

Reference Method (RM) average is the average of three NH3 ppmvd runs as reported by the source tester during a source test.

CEMS average is the average of three NH3 ppmvd values as reported by the data acquisition monitoring system corresponding to the date and times of the Reference Method runs from the source test report.

Manufacturer Name/Model Number: Calculated

Upper Permit Limit: 5.0 parts per million by volume

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

(dry, corrected to 15% O₂)
 Reference Test Method: PART 75
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR ROLLING AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 78: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 78.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C01

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

Item 78.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Sulfuric acid mist emissions from process C01 comply with the best available control technology (BACT) requirements at stated in 40CFR 52.21 through the use of natural gas as the combustion fuel. This process must meet a sulfuric acid emission limit of 0.52 lb/hr for each turbine. Limits are applicable at all times.

Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.52 pounds per hour
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
 Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 79: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 79.1:

The Compliance Certification activity will be performed for:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emission Unit: 1-CTDBR
 Process: C01

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

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions shall not exceed 8.88 lb/hr, except during periods of startup or shutdown. A continuous emissions monitoring device shall be used to demonstrate compliance with this limit. The CO limit of 8.88 lb/hr is for each turbine, 'per unit'.

Manufacturer Name/Model Number: TAPI/T300 EM

Upper Permit Limit: 8.88 pounds per hour

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 80: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 80.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C01

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

Item 80.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions from process C01 shall not exceed 2.0 ppmvd at 15% oxygen, except during periods of startup and shutdown, in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. This emission limit is met through the application of an oxidation catalyst. A continuous

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

emissions monitoring system shall be used to demonstrate compliance with this limit.

Manufacturer Name/Model Number: TAPI/T300 EM
 Upper Permit Limit: 2.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: PART 60 APP B AND F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 81: Compliance Certification
 Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 81.1:
 The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C01

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

Item 81.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
 Monitoring Description:

VOC emissions from process C01 shall not exceed 0.001 lb/mmBtu, including during periods of startup or shutdown, in order to comply with the best available control technology (BACT) requirements listed in 40CFR52.21.

A compliance stack test was performed within 180 days of combustion turbine train startup and shall be performed every five years thereafter. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.001 pounds per million Btus
 Reference Test Method: EPA Methods 25A, 18, and/or 320
 Monitoring Frequency: Once every five years
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 82: Compliance Certification

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C01

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

Item 82.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Sulfur dioxide emissions from process C01 comply with the best available control technology (BACT) requirements at stated in 40CFR 52.21 through the use of natural gas as the combustion fuel. This process must meet a sulfur dioxide emissions limit of 1.67 lb/hr for each turbine. Limits are applicable at all times.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 1.67 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 83: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C01

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

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Monitoring Description:

PM-10 emissions from process C01 shall not exceed 0.012 lb/mmBtu, including during periods of startup and shutdown, in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. A compliance stack test shall be performed once per permit term to verify that this limit is being met. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.012 pounds per million Btus

Reference Test Method: Method 201A/202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 84: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 84.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C01

Regulated Contaminant(s):

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

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM 10 emissions from process C01 shall not exceed 13.0 lb/hr, including during periods of startup or shutdown, in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. A performance test shall be performed once per permit term. The PM 10 emission limit of 13.0 lb/hr is for each turbine, 'per unit'. There are two turbines in the emission unit and process. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 13.0 pounds per hour

Reference Test Method: EPA METHOD 201A/202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 85: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 85.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C01

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 85.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions from process C01 shall not exceed 13.0 lb/hr, including during periods of startup and shutdown, in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. A compliance stack test shall be performed once per permit term. The particulate emission limit of 13.0 lb/hr is for each turbine, 'per unit'. There are two turbines in the emission unit and process. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 13.0 pounds per hour

Reference Test Method: EPA METHOD 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 86: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 86.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C01

Regulated Contaminant(s):

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

CAS No: 0NY075-00-0 PARTICULATES

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions from process C01 shall not exceed 0.012 lb/mmBtu, including during periods of startup and shutdown, in order to comply with the best available control technology requirements as stated in 40CFR52.21. A compliance stack test shall be performed once per permit term. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.012 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 87: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 231-2.5 (a)

Item 87.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C02

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC emissions from process C02 shall not exceed 2.0 ppmvd at 15% oxygen including during periods of startup or shutdown in order to comply with the lowest achievable emission rate (LAER) requirements. This emission limit is met through the application of an oxidation catalyst. A compliance stack test was performed within 180 days of combustion turbine startup and shall be performed every five years thereafter. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Proper operation of the oxidation catalyst shall be demonstrated on a continuous basis through carbon monoxide monitoring under conditions elsewhere in this permit.

Upper Permit Limit: 2.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: EPA Methods 25A, 18, and/or 320
 Monitoring Frequency: Once every five years
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 88: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 88.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C02

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

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions from process C02 shall not exceed 9.0 ppmvd at 15% oxygen, except during periods of startup and shutdown, in order to comply with the lowest achievable emission rate (LAER) requirements. This emission limit is met through the application of dry low-NOx combustors and selective catalytic reduction (SCR). A continuous emissions monitoring device shall be used to demonstrate compliance with this limit.

Manufacturer Name/Model Number: TAPI / T200 EM

Upper Permit Limit: 9.0 parts per million by volume
 (dry, corrected to 15% O₂)

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Condition 89: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 89.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C02

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

Item 89.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions from process C02 shall not exceed 74.04 lb/hr for each turbine, except during periods of startup or shutdown in order to comply with the best available control technology (BACT) requirements as listed in 6 NYCRR Part 231. This emission limit is met through the application of selective catalytic reduction and the limit will be continuously measured using a continuous emissions monitor which will be operated and maintained according to the provisions in Part 75.

Manufacturer Name/Model Number: TAPI / T200 EM

Upper Permit Limit: 74.04 pounds per hour

Reference Test Method: PART 60 APP B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 90: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 52.21, Subpart A

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C02

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Ammonia emissions from the combustion turbine trains shall not exceed 10.0 ppmvd at 15% oxygen while firing low-sulfur fuel oil, except during periods of startup or shutdown, as good operating practice for the selective catalytic reduction (SCR) required for NO_x LAER and BACT. A continuous emissions monitoring system shall be used to determine compliance with this limit. A surrogate system for direct ammonia slip monitoring continuously monitors NO_x before and after the SCR and continuously monitors the ammonia feed rate. Ammonia slip concentration after the SCR is calculated utilizing the following equation:

$$\text{NH}_3\text{Adj.} = ((A - (B * C / 1,000,000)) * (1,000,000 / B)) * D$$

Where,

NH₃Adj. = NH₃, ppmvdA = NH₃ Injection rate (lb/hr)/17 lb/lb-mol

B = Dry Exhaust Flow Rate (lb/hr)/29 lb/lb-mol

C = Change in NO_x ppmvd across the catalyst (Inlet NO_x - Outlet NO_x)

D = Correction factor = RM avg./CEMS avg.

Reference Method (RM) average is the average of three NH₃ ppmvd runs as reported by the source tester during a source test.

CEMS average is the average of three NH₃ ppmvd values as reported by the data acquisition monitoring system corresponding to the date and times of the Reference Method runs from the source test report.

Manufacturer Name/Model Number: Calculated

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

Reference Test Method: PART 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 91: Compliance Certification**Effective between the dates of 12/15/2021 and 12/14/2026**

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Item 91.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C02

Regulated Contaminant(s):
 CAS No: 000630-08-0 CARBON MONOXIDE
 CAS No: 007446-09-5 SULFUR DIOXIDE
 CAS No: 0NY075-00-5 PM-10
 CAS No: 0NY075-00-0 PARTICULATES

Item 91.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

When two turbine trains are operating, the minimum allowable continuous load during normal operation for each combustion turbine during the firing of distillate oil is 50%. Turbine load shall be continuously recorded to demonstrate compliance with this requirement.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 92: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 92.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C02

Regulated Contaminant(s):
 CAS No: 000630-08-0 CARBON MONOXIDE
 CAS No: 007446-09-5 SULFUR DIOXIDE
 CAS No: 0NY075-00-5 PM-10
 CAS No: 0NY075-00-0 PARTICULATES

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

When only one turbine train is operating, the minimum

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

allowable continuous load during normal operation for each combustion turbine during the firing of distillate oil is 100%. 100% load is full base load and the actual percentage may vary plus or minus 5% based on ambient environmental and physical conditions. Turbine load shall be continuously recorded to demonstrate compliance with this requirement.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 93: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C02

Item 93.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The combustion turbines (CTRB1 and CTRB2) shall be limited to firing no more than a total of 31 million gallons/year of fuel oil on a rolling daily basis. Fuel oil flow to the combustion turbines shall be continuously monitored and recorded to demonstrate compliance with this requirement.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NUMBER 2 OIL

Manufacturer Name/Model Number: Micro Motion F300S355

Upper Permit Limit: 3.1E+07 gallons per year

Monitoring Frequency: DAILY

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 94: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 94.1:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C02

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

Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions shall not exceed 20.03 lb/hr, except during periods of startup or shutdown. A continuous emissions monitoring device shall be used to demonstrate compliance with this limit. The CO limit of 20.03 lb/hr is for each turbine, 'per unit'.

Manufacturer Name/Model Number: TAPI / T300 EM

Upper Permit Limit: 20.03 pounds per hour

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 95: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 95.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C02

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

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO emissions from process C02 shall not exceed 4.0 ppmvd at 15%, except during periods of startup or shutdown. This limit meets the requirements of the best available control technology (BACT) requirements as stated in 40 CFR

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

52.21. The emission limit is met through the use of oxidation catalyst. A continuous emissions monitor will be used to demonstrate compliance with this limit.

Manufacturer Name/Model Number: TAPI / T300 EM
 Upper Permit Limit: 4.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: PART 60 APP B AND F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 96: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 96.1:
 The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDDBR
 Process: C02

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

Item 96.2:
 Compliance Certification shall include the following monitoring:

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

Monitoring Description:
 Sulfuric acid emissions from process C02 comply with the best available control technology (BACT) requirements in 40CFR52.21 through the use of low sulfur distillate fuel oil with a maximum sulfur content of 0.05% by weight. This process must meet an H2SO4 emission limit of 33.22 lb/hr for each turbine. Limits are applicable at all times.

The permittee shall obtain fuel oil supplier sulfur certification with each delivery.

Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 33.22 pounds per hour
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 97: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C02

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

Item 97.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Sulfur dioxide emissions from process C02 comply with the best available control technology (BACT) requirements in 40CFR52.21 through the use of low sulfur distillate fuel oil with a maximum sulfur content of 0.05% by weight. This process must meet an SO₂ emission limit of 105.77 lb/hr for each turbine. Limits are applicable at all times.

The permittee shall obtain fuel oil supplier sulfur certification with each delivery.

Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 105.77 pounds per hour
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 98: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 98.1:

The Compliance Certification activity will be performed for:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emission Unit: 1-CTDBR
Process: C02

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

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC emissions from process C02 shall not exceed 0.00199 lb/mmBtu, including during periods of startup or shutdown, in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21.

A compliance stack test was performed within 180 days of combustion turbine train startup and shall be performed every five years thereafter. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.00199 pounds per million Btus

Reference Test Method: EPA Methods 25A, 18, and/or 320

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 99: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C02

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

Item 99.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM-10 emissions from process C02 shall not exceed 75.0 lb/hr, including during periods of startup and shutdown, in order to comply with the best available control

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

technology (BACT) requirements as stated in 40CFR52.21. A compliance stack test shall be performed once per permit term only if oil is fired in the turbines during the permit term. The PM-10 emission limit of 75.0 lb/hr is for each turbine, 'per unit'. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 75.0 pounds per hour
 Reference Test Method: EPA METHODS 201A/202
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 100: Compliance Certification
 Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDDBR
 Process: C02

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

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM-10 emissions from process C02 shall not exceed 0.037 lb/mmBtu, including during periods of startup or shutdown, in order to comply with the best available control technologies (BACT) requirements as stated in 40CFR52.21.

A compliance stack test shall be performed once during the term of the Title V permit only if oil is fired in the turbines during the permit term. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.037 pounds per million Btus
 Reference Test Method: Method 5
 Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Condition 101: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C02

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 101.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM emissions from process C02 shall not exceed 0.037 lb/mmBtu, including during periods of startup or shutdown, in order to comply with the best available control technologies (BACT) requirements as stated in 40CFR52.21.

A compliance stack test shall be performed once per permit term only if oil is fired in the turbines during the permit term. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.037 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 102: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C02

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions from process C02 shall not exceed 75.0 lb/hr, including during periods of startup and shutdown, in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. A compliance stack test shall be performed once per permit term only if oil is fired in the turbines during the permit term. The particulate emission limit of 75.0 lb/hr is for each turbine, 'per unit'. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 75.0 pounds per hour

Reference Test Method: EPA METHOD 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 103: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C03

Regulated Contaminant(s):

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

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions from process C03 shall not exceed 28.9 lb/hr for each turbine, except during periods of startup or shutdown in order to comply with the best available control technology (BACT) requirements as listed in 6 NYCRR Part 231. This emission limit is met through the application of selective catalytic reduction and the limit will be continuously measured using a continuous emissions monitor which will be operated and maintained according to the provisions in Part 75.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Manufacturer Name/Model Number: TAPI / T200 EM
 Upper Permit Limit: 28.9 pounds per hour
 Reference Test Method: PART 60 APP B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 3-HOUR ROLLING AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 104: Compliance Certification
 Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
 Process: C03

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

Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC emissions from process C03 shall not exceed 7.0 ppmvd at 15% oxygen, including during periods of startup or shutdown in order to comply with the lowest achievable emission rate (LAER) requirements. This emission limit is met through the application of an oxidation catalyst. A compliance stack test was performed within 180 days of combustion turbine startup and shall be performed every five years thereafter. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Proper operation of the oxidation catalyst shall be demonstrated on a continuous basis through CO monitoring under conditions elsewhere in this permit.

Upper Permit Limit: 7.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: EPA Methods 25A, 18, and/or 320
 Monitoring Frequency: Once every five years
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Condition 105: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:6 NYCRR 231-2.5 (a)

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emissions from process C03 shall not exceed 3.0 ppmvd at 15% oxygen, except during periods of startup or shutdown in order to comply with the lowest achievable emission rate (LAER) requirements. This emission limit is met through the application of dry low-NOx combustors and selective catalytic reduction (SCR). A continuous emissions monitoring device shall be used to demonstrate compliance with this limit.

Manufacturer Name/Model Number: TAPI / T200 EM

Upper Permit Limit: 3.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 106: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 52.21, Subpart A

Item 106.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

Regulated Contaminant(s):

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

CAS No: 007664-41-7 AMMONIA

Item 106.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Ammonia emissions from the combustion turbine trains shall not exceed 5.0 ppmvd at 15% oxygen, except during periods of startup or shutdown, as good operating practice for the selective catalytic reduction (SCR) required for NOx LAER and BACT. A continuous emissions monitoring system shall be used to determine compliance with this limit. A surrogate system for direct ammonia slip monitoring continuously monitors NOx before and after the SCR and continuously monitors the ammonia feed rate. Ammonia slip concentration after the SCR is calculated utilizing the following equation:

$$\text{NH3Adj.} = ((A - (B * C / 1,000,000)) * (1,000,000 / B)) * D$$

Where,

NH3Adj. = NH3, ppmvd

A = NH3 Injection rate (lb/hr)/17 lb/lb-mol

B = Dry Exhaust Flow Rate (lb/hr)/29 lb/lb-mol

C = Change in NOx ppmvd across the catalyst (Inlet NOx - Outlet NOx)

D = Correction factor = RM avg./CEMS avg.

Reference Method (RM) average is the average of three NH3 ppmvd runs as reported by the source tester during a source test.

CEMS average is the average of three NH3 ppmvd values as reported by the data acquisition monitoring system corresponding to the date and times of the Reference Method runs from the source test report.

Manufacturer Name/Model Number: Calculated

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

Reference Test Method: PART 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 3-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 107: Compliance Certification**Effective between the dates of 12/15/2021 and 12/14/2026**

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Item 107.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 107.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Sulfuric acid emissions from process C03 must comply with the best available control technology (BACT) requirements as stated in 40CFR52.21 through the combustion of natural gas fuel. This process must meet an emission limit of 0.87 lb/hr for H2SO4 per unit. Limits are applicable at all times.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.87 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 108: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 108.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 108.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

CO emissions from process C03 shall not exceed 5.0 ppmvd at 15% oxygen, except during periods of startup or shutdown, in order to comply with the best available control technology requirements (BACT) as stated in 40CFR 52.21. This emission limit is met through the application of an oxidation catalyst. A continuous monitoring device shall be used to demonstrate compliance with this limit.

Manufacturer Name/Model Number: TAPI/T300 EM

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

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 109: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 109.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C03

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 109.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

Carbon monoxide emissions from process C03 shall not exceed 29.3 lb/hr, except during periods of startup or shutdown. A continuous emissions monitoring device shall be used to demonstrate compliance with this limit. The CO limit of 29.3 lb/hr is for each turbine.

Manufacturer Name/Model Number: TAPI/T300EM

Upper Permit Limit: 29.3 pounds per hour

Reference Test Method: PART 60 APP B AND F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Condition 110: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 110.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 110.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Sulfur dioxide emissions from process C03 must comply with the best available control technology (BACT) requirements as stated in 40CFR52.21 through the combustion of natural gas fuel. This process must meet an emission limit of 2.21 lb/hr for SO₂ per unit. Limits are applicable at all times.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 2.21 pounds per hour

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE -
SEE MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 111: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 111.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 111.2:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

VOC emissions from process C03 shall not exceed 0.00745 lb/mmBtu, including during periods of startup or shutdown, in order to comply with the best available control technology (BACT) requirements as listed in 40CFR52.21.

A compliance stack test was performed within 180 days of combustion turbine train startup and shall be performed every five years thereafter. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.00745 pounds per million Btus

Reference Test Method: EPA Methods 25A, 18, and/or 320

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 112: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 112.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C03

Regulated Contaminant(s):

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

Item 112.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM-10 emissions from process C03 shall not exceed 35.0 lb/hr for each turbine in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. This limit applies during periods of startup or shutdown.

A compliance stack test shall be performed once per permit term to verify that the emission limit is being met. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

limits.

Upper Permit Limit: 35.0 pounds per hour

Reference Test Method: EPA METHODS 201A/202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 113: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 113.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR

Process: C03

Regulated Contaminant(s):

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

Item 113.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

PM-10 emissions from process C03 shall not exceed 0.017 lb/mmBtu in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. This limit applies during periods of startup or shutdown.

A compliance stack test shall be performed once per permit term to verify that the emission limit is being met.

Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.017 pounds per million Btus

Reference Test Method: Method 201A/202

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 114: Compliance Certification

Effective between the dates of 12/15/2021 and 12/14/2026

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Item 114.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Particulate emissions from process C03 shall not exceed 35.0 lb/hr for each turbine in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. This limit applies during periods of startup or shutdown.

A compliance stack test shall be performed once per permit term to verify that the emission limit is being met. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 35.0 pounds per hour

Reference Test Method: EPA METHOD 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 115: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 115.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-CTDBR
Process: C03

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

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Particulate emissions from process C03 shall not exceed 0.017 lb/mmBtu in order to comply with the best available control technology (BACT) requirements as stated in 40CFR52.21. This limit applies during periods of startup or shutdown.

A compliance stack test shall be performed once per permit term to verify that the emission limit is being met. Stack testing using the appropriate Part 60 test methods at steady state will demonstrate compliance with permit limits.

Upper Permit Limit: 0.017 pounds per million Btus

Reference Test Method: Method 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 116: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 200.1 (cq)

Item 116.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

Regulated Contaminant(s):

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

Item 116.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emergency power generating stationary internal combustion engines are exempt from this permit. In order to meet the definition of an emergency engine, these engines must operate as a mechanical or electrical power source only when the usual supply of power is unavailable, and operate for no more than 500 hours per year. The 500 hours of annual operation for the engine include operation during emergency situations, routine maintenance, and routine exercising (for example, test firing the engine for one hour a week to ensure reliability). A stationary internal combustion engine used for peak shaving generation is not an emergency power generating stationary internal combustion engine.

Compliance with Part 200.1(cq) provisions that limit the

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

operation of the emergency engines to only emergency situations, routine maintenance, and routine exercising are more stringent than the NSPS III requirements contained in 40 CFR 60.4211(f)(3) which allows for 50 hours of certain non-emergency operation.

Monitoring Frequency: MONTHLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 117: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart III

Item 117.1:
 The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

Item 117.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart III of 40 CFR Part 60 may not fire any diesel fuel which exceeds a sulfur content of 15 ppm as per the non-road diesel fuel sulfur content standard set forth in 40 CFR Part 80.510(b) except that any diesel fuel purchased or otherwise obtained prior to October 1, 2010 may be used until depleted. Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of non-road diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: DIESEL OIL
 Parameter Monitored: SULFUR CONTENT

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Upper Permit Limit: 15 parts per million by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 118: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4209(a), NSPS Subpart IIII

Item 118.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

Item 118.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator of an emergency stationary
compression ignition IC engine must install and maintain a
non-resettable hour meter prior to startup to monitor
engine usage

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 1/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 119: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4211(f), NSPS Subpart IIII

Item 119.1:
The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

Item 119.2:
Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Emergency stationary ICE may be operated for up to 50 hours per calendar year in non-emergency situations. The 50 hours of operation in non-emergency situations are counted as part of the 100 hours per calendar year for maintenance and testing and emergency demand response provided in 40 CFR 60.4211(f)(2). Except as provided in paragraph (i), the 50 hours per calendar year for non-emergency situations cannot be used for peak shaving or non-emergency demand response, or to generate income for a facility to an electric grid or otherwise supply power as part of a financial arrangement with another entity. There is no time limit on the use of emergency stationary ICE in emergency situations.

(i) The 50 hours per year for non-emergency situations can be used to supply power as part of a financial arrangement with another entity if all of the following conditions are met:

(A) The engine is dispatched by the local balancing authority or local transmission and distribution system operator;

(B) The dispatch is intended to mitigate local transmission and/or distribution limitations so as to avert potential voltage collapse or line overloads that could lead to the interruption of power supply in a local area or region.

(C) The dispatch follows reliability, emergency operation or similar protocols that follow specific NERC, regional, state, public utility commission or local standards or guidelines.

(D) The power is provided only to the facility itself or to support the local transmission and distribution system.

(E) The owner or operator identifies and records the entity that dispatches the engine and the specific NERC, regional, state, public utility commission or local standards or guidelines that are being followed for dispatching the engine. The local balancing authority or local transmission and distribution system operator may keep these records on behalf of the engine owner or operator.

Parameter Monitored: HOURS OF OPERATION

Upper Permit Limit: 50 hours per year

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Condition 120: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4219, NSPS Subpart IIII

Item 120.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

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

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fire pump engine means an emergency stationary internal combustion engine certified to NFPA requirements that is used to provide power to pump water for fire suppression or protection.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

Condition 121: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement:40CFR 60.4219, NSPS Subpart IIII

Item 121.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

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

Item 121.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Emergency stationary internal combustion engine means any stationary reciprocating internal combustion engine that meets all of the criteria in paragraphs (1) through (3) of this definition. All emergency stationary ICE must comply

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

rate (LAER) requirements as stated in 6 NYCRR 231-2.5, the fire pump engine shall operate in accordance with manufacturer's recommendations and with manufacturer's settings. In addition, the operation during equipment testing shall not exceed 52 hours per rolling 12 month period.

Equipment specifications, logs of operating hours, and maintenance logs shall be maintained on site.

Work Practice Type: HOURS PER YEAR OPERATION

Process Material: FUEL CONSUMPTION

Parameter Monitored: OPERATING HOURS

Upper Permit Limit: 52 hours per year

Monitoring Frequency: MONTHLY

Averaging Method: 12-MONTH TOTAL, ROLLED MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 123: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

Process: C21

Regulated Contaminant(s):

CAS No: 0NY998-00-0 VOC

Item 123.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to comply with the lowest achievable emission rate (LAER) requirements for VOC's as required in 6 NYCRR Part 231, the emergency engine/generator set and fire pump engine shall operate in accordance with manufacturer's recommendations. Equipment specifications and maintenance logs shall be maintained on site.

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 1/30/2022.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Condition 124: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 6 NYCRR 231-2.5 (a)

Item 124.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC
Process: C21

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

Item 124.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

In order to comply with the best achievable control technology (BACT) requirements for carbon monoxide, the emergency engine/generator set and the fire pump engine shall operate in accordance with manufacturer's recommendations. Equipment specifications and maintenance logs shall be maintained on site and be readily available upon inspection.

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 1/30/2022.

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

Condition 125: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC
Process: C21

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

Item 125.2:

Compliance Certification shall include the following monitoring:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Sulfur dioxide and sulfuric acid mist emissions from process C21 shall comply with the best available control technology (BACT) requirements through the use of low sulfur distillate oil with a sulfur content of 0.0015% by weight or less. Compliance shall be demonstrated by maintaining the fuel supplier certification with each shipment of fuel.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 126: Compliance Certification
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable Federal Requirement: 40CFR 60.4205(b), NSPS Subpart IIII

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: 1-MISCC

Process: C21

Emission Source: EDG01

Regulated Contaminant(s):

CAS No: 000630-08-0	CARBON MONOXIDE
CAS No: 0NY075-00-0	PARTICULATES
CAS No: 0NY998-00-0	VOC
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 126.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The emergency generator (EDG01) must comply with:

- 1) the certification emissions standards in 40 CFR 89.112 for the same model year and maximum engine power as follows: NMHC and NOx less than or equal to 6.4 g/kW-hr, CO less than or equal to 3.5 g/kW-hr, and PM less than or equal to 0.2 g/kW-hr; and
- 2) The certification smoke standards in 40 CFR

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

- number of hours of emergency operation
- date and number of hours of testing, maintenance, and readiness testing operations
- purpose of operation and records of operational characteristic monitoring
- fuel type and usage

Monitoring Frequency: MONTHLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

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 128: Contaminant List
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement: ECL 19-0301

Item 128.1:

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

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

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

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

CAS No: 007664-41-7
Name: AMMONIA

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

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

CAS No: 0NY075-00-5

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Name: PM-10

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

CAS No: 0NY998-00-0

Name: VOC

Condition 129: Malfunctions and Start-up/Shutdown Activities
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement: 6 NYCRR 201-1.4

Item 129.1:

(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.

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Condition 130: CLCPA Applicability

Effective between the dates of 12/15/2021 and 12/14/2026

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

Item 130.1:

Pursuant to The New York State Climate Leadership and Community Protection Act (CLCPA) and Article 75 of the Environmental Conservation Law, emission sources shall comply with regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 131: Air pollution prohibited

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement:6 NYCRR 211.1

Item 131.1:

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 132: Compliance Demonstration

Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement:6 NYCRR 242-1.5

Item 132.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 132.2:

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 CO₂ authorized account representative of each CO₂ budget source and each CO₂ 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 CO₂ requirements:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

(1) The owners and operators of each CO₂ budget source and each CO₂ budget unit at the source shall hold CO₂ allowances available for compliance deductions under Section 242-6.5, as of the CO₂ allowance transfer deadline, in the source's compliance account in an amount not less than the total CO₂ emissions for the control period from all CO₂ budget units at the source, as determined in accordance with Subparts 242-6 and 242-8.

(2) Each ton of CO₂ emitted in excess of the CO₂ budget 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 1/30/2022.

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Condition 133: Compliance Demonstration
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement: 6 NYCRR 242-1.5

Item 133.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 133.2:

Compliance Demonstration shall include the following monitoring:

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 134: Compliance Demonstration
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement: 6 NYCRR Subpart 242-4

Item 134.1:

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

Emission Unit: 1-CTDBR

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

Item 134.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Annual Compliance Certification Report:

(a) For each control period in which a CO2 budget source is subject to the CO2 requirements of subdivision 242-1.5(c) of this Part, CO2 authorized account representative of the source shall submit to the department by March 1st following the relevant control period, a compliance certification report. The control period is a three-calendar-year time period.

(b) The compliance certification report shall include the following elements:

(1) identification of the source and each CO2 budget unit at the source;

(2) as an option, the serial numbers of the CO2 allowances that are to be deducted from the source's compliance account under section 242-6.5 of this Part for the control period, including the serial numbers of any CO2 offset allowances that are to be deducted subject to the limitations of section 242-6.5(a)(3) of this Part; and

(3) the compliance certification under subdivision (c) of this section (below).

(c) In the compliance certification report the CO2

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO₂ budget units at the source in compliance with the CO₂ Budget Trading Program, whether the source and each CO₂ budget unit at the source for which the compliance certification is submitted was operated during the calendar years covered by the report in compliance with the requirements of the CO₂ Budget Trading Program, including:

(1) whether the source was operated in compliance with the CO₂ requirements of section 242-1.5(c) of this Part;

(2) whether the monitoring plan applicable to each unit at the source has been maintained to reflect the actual operation and monitoring of the unit, and contains all information necessary to attribute CO₂ emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO₂ emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;

(4) whether the facts that form the basis for certification under Subpart 242-8 of each monitor at each unit at the source, or for using an excepted monitoring method or alternative monitoring method approved under Subpart 242-8 of this Part, if any, have changed; and

(5) if a change is required to be reported under paragraph (c)(4) above, specify the nature of the change, the reason for the change, when the change occurred, and how the unit's compliance status was determined subsequent to the change, including what method was used to determine emissions when a change mandated the need for monitor recertification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 135: Compliance Demonstration
Effective between the dates of 12/15/2021 and 12/14/2026

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Applicable State Requirement: 6 NYCRR Subpart 242-8**Item 135.1:**

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

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 135.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

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

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

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

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

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

(2) The CO₂ authorized account representative shall submit each quarterly report to the department or its agent within 30 days following the end of the calendar quarter covered by the report. Quarterly reports shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64. Quarterly reports shall be

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

submitted for each CO₂ budget unit (or group of units using a common stack), and shall include all of the data and information required in subpart G of 40 CFR part 75, except for opacity, NO_x, and SO₂ provisions.

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

Condition 136: Compliance Demonstration
Effective between the dates of 12/15/2021 and 12/14/2026

Applicable State Requirement: 6 NYCRR 242-8.5

Item 136.1:

The Compliance Demonstration activity will be performed for the facility:

The Compliance Demonstration applies to:

Emission Unit: 1-CTDBR

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 136.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

Recordkeeping and Reporting (6NYCRR Part 242-8.5)

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

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

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

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

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

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

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

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

(ii) for a unit with add-on CO₂ emissions controls and for all hours where data are substituted in accordance

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

with 40 CFR 75.34(a)(1), the add-on emissions controls were operating within the range of parameters listed in the quality assurance/quality control program under appendix B of 40 CFR part 75 and the substitute values do not systematically underestimate CO2 emissions; and (iii) the CO2 concentration values substituted for missing data under Subpart D of 40 CFR part 75 do not systematically underestimate CO2 emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2022.

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

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

Condition 137: Compliance Demonstration
Effective between the dates of 12/16/2021 and 12/14/2026

Applicable State Requirement: 6 NYCRR 251.3 (b)

Item 137.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: 1-CTDBR

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

Item 137.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

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

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052

This facility will monitor CO₂ emissions using the calculation methods specified in Appendix G of Part 75 as specified in 40CFR75.13(b) and will determine the heat value of each fuel using the methodology listed in Appendix D of Part 75 as specified in 40CFR75.71(c)(2).

The owner or operator shall report the CO₂ mass emissions data and heat input data in a format appropriate for comparison to the applicable emission limit, in lb/MMbtu heat input, for each calendar quarter. Reports are due within 30 days following the end of the calendar quarter. The reports to EPA shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64 and include all the data and information required in subpart H and G of 40 CFR part 75. Submit the Emission Monitoring data feedback reports received from the EPA Emissions Collection and Monitoring Plan System (ECMPS) to the Regional DEC office quarterly. These reports verify that data was submitted to EPA and include the hours of operation, heat input and CO₂ emissions. [251.6(e)]

A compliance certification shall be submitted in support of each quarterly report as required by 6 NYCRR Part 251.6(a) and (g). Part 251.6(a) includes a specific certification statement to include with all submissions.

The owner or operator shall report the annual CO₂ mass emissions and heat input data in a format appropriate for comparison to the emission limit within 30 days following the end of the calendar year. [251.3]

Parameter Monitored: HEAT INPUT
Upper Permit Limit: 180 pounds per million Btus
Monitoring Frequency: CONTINUOUS
Averaging Method: CALENDAR YEAR AVERAGE
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2022.
Subsequent reports are due every 12 calendar month(s).

Permit ID: 4-3814-00052/00009

Facility DEC ID: 4381400052