

Facility DEC ID: 9060800053

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 9-0608-00053/00019
Mod 0 Effective Date: 01/21/2022 Expiration Date: 01/20/2027
Mod 1 Effective Date: 03/23/2023 Expiration Date: No expiration date.
Mod 2 Effective Date: 08/19/2024 Expiration Date: 01/20/2027

Permit Issued To: JAMESTOWN BOARD OF PUBLIC UTILITIES
92 STEELE ST
PO BOX 700
JAMESTOWN, NY 14701-0700

Contact: STEVEN M DINEEN
JAMESTOWN BOARD OF PUBLIC UTILITIES
92 STEELE ST PO BOX 700
JAMESTOWN, NY 14702-0700
(716) 661-1698

Facility: SAMUEL A CARLSON GENERATING STATION
136 STEELE ST
JAMESTOWN, NY 14701-6438

Contact: STEVEN M DINEEN
JAMESTOWN BOARD OF PUBLIC UTILITIES
92 STEELE ST PO BOX 700
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Description:
This permit is being issued for the minor modification of the Title V permit. Samuel A Carlson has installed solar panels as part of an effort to incorporate renewable energy resources into the permit. The permit is being modified to change the ozone season reporting requirement from 25 ppm NOx to 1.5 lbs NOx/MWh by May 1, 2025.

1. Permit conditions at the facility level are based on citations from 6 NYCRR Parts 200, 201, 202, 211 and 215 and are conditions that are in every Title V (five) operating permit. These conditions generally reiterate rules that apply to most facilities and some require the permittee to monitor or take actions.
2. Permit conditions that list 6 NYCRR Part 201-7.1 (Permits and Registrations, Federally Enforceable Emission Caps) contains federally enforceable emission capping conditions. The emission caps limit emissions below applicability thresholds for the listed emission units, emission points, or emission sources. Compliance with the emission caps are demonstrated by measuring actual emissions with continuous emission monitors on the gas turbine stacks or calculating emissions based on fuel use at other sources.

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NOx emissions from boiler # 9 and #10 are each capped at 25 tpy to create NOx ERC's.

NOx, CO, and PM-10 emissions from the gas turbine, EP's 20 and 21, and the 23.3 MMBtu/hr boiler, EP 22, were capped when the gas turbine project was permitted in year 2000:

NOx emissions are capped at 5.0 ton/yr from U-00022 the small boiler and 160.0 ton/yr from the gas turbine, emission unit U-00020 on a 52-week rolling total basis. These caps, combined with 125.5 ton/yr of NOx emission reduction credits generated by curtailment of boilers #10 and #11 in emission unit U-00004 resulted in a net emission increase of NOx that is less than the 40 ton/yr significant net emission increase threshold found in both 6NYCRR 231-2 and 40 CFR 52.21.

CO emissions are capped at 8.7 ton/yr from the small boiler, emission unit U-00022, and to 90.0 ton/yr from the gas turbine, emission unit U-00020, on a 52-week rolling total basis. These caps resulted in a net emission increase of CO from the gas turbine project that is less than the 100 ton/yr significant net emission increase threshold for CO found in 40 CFR 52.21.

PM-10 emissions are limited to 0.8 ton/yr from the small boiler, emission unit U-00022, and 14.0 ton/yr from the gas turbine, emission unit U-00020, on a 52-week rolling total basis. These caps resulted in a net emission increase of PM-10 from the gas turbine project that is less than the 15 ton/yr significant net emission increase threshold for PM-10 found in 40 CFR 52.21.

3. This permit contains NOx emission caps for emission unit 00004, boilers #10 and #11, that were implemented in the 1999 to 2001 timeframe for the gas turbine addition project, emission unit #20. At the time NOx was capped at 145 tons per year from EU 00004 to create 125.0 tons of NOx Emission Reduction Credits (ERC's). Since then boiler #11 was shutdown. In 2014 the emissions from EU 00004 were further capped at 25 tons per year to create an additional 17.7 tons of NOx ERC's. Compliance with the 25-ton cap will demonstrate compliance with the 145 ton cap. The 145 cap was kept in the permit to document the earlier capping.

4. Permit conditions that list 6 NYCRR Part 225-1 (Fuel Composition and Use - sulfur limitations) as the applicable requirement regulate the sulfur content of the fuel oil burned by all sources at the plant. The sulfur content of each delivery of oil is evaluated for compliance. Part 225-1 limits the sulfur content of distillate oil to no more than 0.0015 percent by weight (15 ppm). This is the lowest sulfur content limit of all the applicable sulfur in oil requirements. Compliance with this limit will demonstrate compliance with other sulfur in oil limits.

5. Permit conditions that list 6 NYCRR Part 227-1 (Stationary Combustion Installations) as the applicable requirement regulates particulate and opacity emissions from combustion sources. Each boiler is included in the Part 227-1 opacity permit condition. If operational problems occur the facility is required to conduct visible emission observations as explained in the permit condition.

6. Permit conditions that list 6 NYCRR Part 227-2 (Nitrogen Oxide Reasonably Available Control Technology, NOx RACT) as the applicable requirement specify what information must be recorded and submitted by the regulation. The NOx RACT emission limits apply to the boilers and the combined emissions of the LM6000 combustion gas turbine and duct burner. The Department approved a revised NOx RACT compliance plan in an October 23, 2014 letter:

Boiler #9 complies with NOx RACT by switching from coal to cleaner fuels, natural gas (primary fuel) and ultra-low sulfur distillate fuel oil (backup fuel). This is known as 'fuel switching'. Boiler #9 NOx emissions are also capped at 25 tons per 52-week rolling total to ensure the fuel switching project meets the Insignificant Modification in New Source Review, 6 NYCRR Part 231-11.2.

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Boiler #10 complies with NO_x RACT by switching from coal to a cleaner fuel, natural gas. This is known as ‘fuel switching’. Boiler #10 NO_x emissions are also capped at 25 tons per 52-week rolling total to ensure the fuel switching project meets the Insignificant Modification in New Source Review, 6 NYCRR Part 231-11.2.

The LM6000 combustion gas turbine has three NO_x RACT limits:

- 35 ppmvd NO_x @ 15% oxygen during combined cycle operation in the ozone season (May 1st through September 30th),
- 42 ppmvd NO_x @ 15% oxygen during combined cycle operation in the non-ozone season (October 1st through April 30th), and
- 50 ppmvd NO_x @ 15% oxygen whenever it is operating in simple cycle mode.

The 73.5 MMBtu natural gas boiler will comply with the presumptive 0.05 lb/MMBtu NO_x limit. The 23.3 MMBtu/hr and 3.2 MMBtu/hr natural gas boilers will meet the presumptive RACT requirement for small boilers, an annual boiler tune-up.

7. 6 NYCRR Part 227-3, Ozone Season Oxides of Nitrogen (NO_x) for Simple Cycle and Regenerative Combustion Turbines is a newer requirement that applies to the gas turbine when it operates in simple cycle mode during the ozone season (May 1 through September 30, annually). The facility will comply with the 100 ppm, corrected to 15% oxygen, NO_x limit that becomes effective May 1, 2023 by complying with Subpart 227-2 NO_x Reasonably Available Control Technology (RACT) limit of 50 ppm, corrected to 15% oxygen limit that they must already meet. The facility has elected to comply with the 6 NYCRR 227-3.5(b) alternative compliance options of 1.5 lbs NO_x per Mega Watt hour (MWh) instead of the 25 ppm limit corrected 15% oxygen. Installation of onsite solar panels have been verified. The facility must demonstrate compliance with the 1.5 lbs NO_x/MWh by May 1, 2025.

8. Permit conditions that list 6 NYCRR 231-2 (New Source Review in Non-Attainment Areas and Ozone Transport Regions) as the applicable requirement document the use of emission reduction credits (ERC’s) for the gas turbine project that occurred between 1999 and 2001. 6 NYCRR Part 201-7 capping conditions and along with, Part 231-2, created ERC’s so the project was not subject to the modeling, emission control, and emission offsets requirements of Part 231-2 when the combustion gas turbine project, emission unit U-00020, was permitted and constructed. This condition created 125.0 tons of NO_x emission reduction credits from emission unit 00004 by limiting emissions to 145.0 tons a year in year 2000. This permit, Renewal 2, Modification 0 (issued in 2021), includes a condition that limits NO_x emissions from emission unit 00004 to 25.0 to create 10.1 tons of NO_x ERCs. This condition was kept in the permit for historical purposes. Compliance with the 25 tpy cap demonstrates compliance with this permit condition.

9. The permit condition for 6 NYCRR 231-10 (New Source Review in Non-Attainment Areas and Ozone Transport Regions) as the applicable requirement, documents the creation of NO_x emission reduction credits (ERC’s). The ERC’s were generated by switching from coal to natural gas and distillate fuel oil in boiler #9 and switching from coal to natural gas in boiler #10. The fuel switch was made to comply with the NO_x RACT requirements of 6 NYCRR Part 227-2, as allowed by the fuel switching compliance option in 6 NYCRR 227-2.5(a). The NO_x RACT limit for the new fuels, gas and oil, did not change, 0.20 pounds of NO_x per million BTU, the presumptive RACT limit for pulverized coal. The potential to emit NO_x from boiler #9 is 35.1 tons a year. The potential to emit NO_x from boiler #10 is 42.7 tons a year. The facility accepted a 25 ton per year NO_x emission cap on each boiler to create 10.1 tons of NO_x ERC’s from boiler #9 and 17.7 tons of NO_x ERC’s from boiler #10. The NO_x PTE is now 25 tpy for each boiler.

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10. Permit conditions that list 6 NYCRR 242 (CO₂ Budget Trading Program) as the applicable requirement, track the emissions of carbon dioxide from the combustion gas turbine (EU U-00020), boiler #9 (EU U-00004) and boiler #10 (EU U-00003). Part 242 was revised, effective December 2020, to apply to any combustion unit, that any time on or after January 1, 2021, serves an electric generator with a nameplate capacity equal to or greater than 15 MWe that resides at a CO₂ Budget Source, per 6NYCRR 242-1.4(a)(2). Before this applicability change, the gas turbine was subject to Part 242, so the facility was already a CO₂ Budget Source. All CO₂ emissions from the gas turbine while operating in combined cycle (includes duct burner emissions) must comply with Part 242.

11. The permit includes requirements from EPA's Cross State Air Pollution Rule (CSAPR) which regulates emissions of NO_x and SO₂. The requirements of the Clean Air Interstate Rule (CAIR), which were contained in 6 NYCRR Parts 243, 244 and 245, have been replaced by the Cross-State Air Pollution Rule (CSAPR). Requirements for the CSAPR program are in the permit conditions for 40 CFR Part 97, subparts AAAAA, CCCCC and GGGGG. This change does not affect the reporting requirements for the facility. CSAPR only applies to the emissions from the combustion gas turbine, emission unit U-00020.

12. The requirements from 6 NYCRR 246, Mercury Reduction Program for Coal-Fired Electric Utility Steam Generating Unit do not apply to the facility since it stopped burning coal. Part 246 was not carried over into this permit renewal.

13. 6 NYCRR Part 251, CO₂ Performance Standards for Major Electric Generating Facilities, was added to the permit after the applicability was revised. It applies to boilers #9 and #10, as well as the gas turbine. All three are considered 'non-modified existing sources' and will meet the input-based CO₂ limit for each source.

14. Permit conditions that list 40 CFR 60 subpart A (New Source Performance Standards (NSPS) - General Provisions) as the applicable requirement, requires the facility to comply with notification, monitoring, record keeping, and reporting requirements of all applicable NSPS requirements.

15. Permit conditions that list 40 CFR 60 subpart Db (New Source Performance Standards for Industrial-Commercial-Institutional Steam Generating Units, 100 to 250 million Btu per hour) as the applicable regulation apply only to the duct burner associated with the gas turbine. Subpart Db limits the emissions of nitrogen oxide (NO_x). The permittee elected to use the continuous emission monitoring system on the combined cycle stack to demonstrate compliance. The combined cycle stack is EP 00021. The duct burner only burns natural gas, so it is only subject to the NO_x requirements and fuel monitoring requirements.

16. Permit conditions that list 40 CFR 60 subpart Dc (New Source Performance Standards (NSPS) (New Source Performance Standards for Small Industrial-Commercial-Institutional Steam Generating Units, 10 to 100 million Btu per hour) as the applicable regulation, requires the small natural gas boiler (EU 00022, 23.3 MMBtu/hr) and the midsize natural gas package boiler (EU 00027, 73.5 MMBtu/hr) to monitor and record daily fuel consumption.

17. The combustion gas turbine is subject to 40 CFR 60 subpart GG (New Source Performance Standards for Stationary Gas Turbines) which limits the emissions of sulfur dioxide (SO₂), nitrogen oxide (NO_x), and opacity. The record keeping and monitoring requirements are prescribed by the regulation.

The permittee requested not to monitor the sulfur content of the natural gas fired in the LM6000 combustion gas turbine as allowed in 40 CFR 60.334(h)(3). Analytical results were

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submitted with a July 25, 2006 letter to support this request. The permittee does not use the nitrogen content of the natural gas to calculate the NOx emission limit in 40 CFR Part 60 subpart GG, so the facility is not required to measure the nitrogen content of natural gas for subpart GG purposes.

18. Permit conditions that list 40 CFR Part 63 subpart JJJJJ (National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers at Area Sources [40 CFR Part 63.11193, subpart JJJJJ (6J's)], as the applicable regulation sets requirements to minimize emissions from boiler #9. The regulation specifies tune-ups, monitoring, recordkeeping and reporting. Subpart JJJJJ only applies to boiler #9 because it fires distillate oil as a backup fuel. Subpart JJJJJ does not apply to boilers that only burn natural gas. Boiler #9 is considered an existing oil-fired boiler. When the permittee was burning coal, it was a major source of hazardous air pollutants. Since the permittee no longer burns coal the facility is an Area Source of HAP's, as confirmed in a September 16, 2014 letter from EPA to Jamestown Board of Public Utilities. Boiler #9 was subject to a one-time energy assessment which was performed

19. The requirements from 40 CFR 64, Continuous Assurance Monitoring (CAM) were not carried into this permit because the facility stopped burning coal in the boilers. The current potential pre-control device emissions from boilers #9 or #10 don't exceed major source thresholds.

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: LISA M CZECHOWICZ
NYSDEC - REGION 9
700 Delaware Ave
BUFFALO, NY 14209

Authorized Signature: _____ Date: ___ / ___ / _____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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- 8 3 Applications for permit renewals, modifications and transfers
- 9 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 9 5 Submission of application for permit modification or renewal-REGION 9 HEADQUARTERS

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DEC GENERAL CONDITIONS

**** General Provisions ****

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

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

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submitted prior to actual transfer of ownership.

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

Item 4.1:

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

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

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

Condition 2-1: Submission of application for permit modification or
renewal-REGION 9

HEADQUARTERS

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 2-1.1:

Submission of applications for permit modification or renewal are to be submitted to:
NYSDEC Regional Permit Administrator
Region 9 Headquarters
Division of Environmental Permits
700 Delaware Ave.,
Buffalo, NY 14209
(716) 851-7130

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: JAMESTOWN BOARD OF PUBLIC UTILITIES
92 STEELE ST
PO BOX 700
JAMESTOWN, NY 14701-0700

Facility: SAMUEL A CARLSON GENERATING STATION
136 STEELE ST
JAMESTOWN, NY 14701-6438

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

Mod 0 Permit Effective Date: 01/21/2022

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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
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19	18	40 CFR Part 68: Accidental release provisions.
19	19	40CFR 82, Subpart F: Recycling and Emissions Reduction
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20	22	6 NYCRR Subpart 201-6: Emission Unit Definition
23	23	6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
23	24	6 NYCRR 201-6.4 (f): Operational Flexibility
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25	30	6 NYCRR 202-1.5: Prohibitions
25	2-2	6 NYCRR 202-2.4 (a) (3): Statement dates for emissions statements.
25	31	6 NYCRR 211.2: Visible Emissions Limited
25	32	6 NYCRR 225-1.2 (d): Compliance Certification
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31	35	40CFR 60, NSPS Subpart A: Applicability of Subpart A General Provisions
31	36	40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
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- 32 38 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 32 39 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 33 40 40CFR 60.11(d), NSPS Subpart A: Compliance with Standards and Maintenance Requirements
- 33 41 40CFR 60.12, NSPS Subpart A: Circumvention.
- 33 42 40CFR 60.13(a), NSPS Subpart A: Continuous Monitoring Requirements
- 33 43 40CFR 60.13(d), NSPS Subpart A: Compliance Certification
- 34 44 40CFR 60.13(e), NSPS Subpart A: Compliance Certification
- 35 45 40CFR 60.13(h), NSPS Subpart A: Monitoring Requirements
- 35 46 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 36 47 40CFR 63.11210(i), Subpart JJJJJ: Physical change to boiler
- 36 48 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
- 37 49 40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations and Permitting
- 37 50 40CFR 97.1006, Subpart GGGGG: Compliance Certification
- Emission Unit Level**
- 38 51 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 39 52 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 43 53 6 NYCRR 201-7.1: Emission Unit Permissible Emissions

- EU=U-00003**
- 44 54 40CFR 63.11223(c), Subpart JJJJJ: Compliance Certification
- 45 55 40CFR 63.11225(b), Subpart JJJJJ: Compliance Certification

- EU=U-00003,EP=00003**
- 47 56 6 NYCRR 227-2.5 (a): Compliance Certification
- 48 57 6 NYCRR Subpart 231-10: Compliance Certification
- 50 58 40CFR 63.11225(c), Subpart JJJJJ: Compliance Certification

- EU=U-00003,EP=00003,Proc=090**
- 51 59 6 NYCRR 227-1.3 (a): Compliance Certification

- EU=U-00004**
- 52 *60 6 NYCRR 201-7.1: Capping Monitoring Condition

- EU=U-00004,EP=00004**
- 55 61 6 NYCRR 227-2.5 (a): Compliance Certification
- 56 62 6 NYCRR Subpart 231-10: Compliance Certification

- EU=U-00020**
- 58 *63 6 NYCRR 201-7.1: Capping Monitoring Condition
- 60 *64 6 NYCRR 201-7.1: Capping Monitoring Condition
- 62 *65 6 NYCRR 201-7.1: Capping Monitoring Condition
- 64 *66 6 NYCRR 201-7.1: Capping Monitoring Condition
- 66 67 6 NYCRR 231-2.4 (a) (1): Documents the Use of ERCs for EU U-00020, the Gas Turbine
- 67 68 40CFR 60.332(a)(1), NSPS Subpart GG: Compliance Certification
- 69 69 40CFR 60.332(f), NSPS Subpart GG: Compliance Certification
- 70 70 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 71 71 40CFR 97.606, Subpart CCCCC: Compliance Certification

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EU=U-00020,Proc=DB1

- 72 72 40CFR 60.44b(l)(1), NSPS Subpart Db: Compliance Certification
- 73 73 40CFR 60.49b(d), NSPS Subpart Db: Compliance Certification

EU=U-00020,Proc=GT1

- 74 74 6 NYCRR 227-2.4 (e) (2): Compliance Certification
- 75 75 6 NYCRR 227-2.4 (e) (2): Compliance Certification

EU=U-00020,Proc=GT2

- 76 76 6 NYCRR 227-2.4 (e) (1): Compliance Certification

EU=U-00022

- 77 *78 6 NYCRR 201-7.1: Capping Monitoring Condition
- 79 *79 6 NYCRR 201-7.1: Capping Monitoring Condition
- 81 *80 6 NYCRR 201-7.1: Capping Monitoring Condition

EU=U-00022,EP=00022

- 82 81 6 NYCRR 227-2.4 (d): Compliance Certification

EU=U-00027,EP=00027

- 83 82 6 NYCRR 227-2.4 (c) (1): Compliance Certification

EU=U-00028,EP=00028

- 84 83 6 NYCRR 227-2.4 (d): Compliance Certification

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- 87 84 ECL 19-0301: Contaminant List
- 88 85 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 88 86 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 89 87 6 NYCRR 211.1: Air pollution prohibited
- 89 88 6 NYCRR 242-1.5: Compliance Demonstration
- 90 89 6 NYCRR Subpart 242-4: Compliance Demonstration
- 92 90 6 NYCRR 242-8.5: Compliance Demonstration
- 93 91 6 NYCRR 251.3 (b): Compliance Demonstration
- 95 92 6 NYCRR 251.5: Compliance Demonstration

Emission Unit Level

EU=U-00003,EP=00003

- 96 93 6 NYCRR 251.3 (b): Compliance Demonstration
- 98 94 6 NYCRR 251.5: Compliance Demonstration

EU=U-00020

- 99 95 6 NYCRR 251.3 (b): Compliance Demonstration
- 101 96 6 NYCRR 251.5: Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 2/Mod 2/FINAL

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Item K: Permit Exclusion - ECL 19-0305

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

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

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

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

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

**Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 01/21/2022 and 01/20/2027**

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

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

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

Condition 2: Fees**Effective between the dates of 01/21/2022 and 01/20/2027****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 01/21/2022 and 01/20/2027****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 01/21/2022 and 01/20/2027****Applicable Federal Requirement:6 NYCRR 201-6.4 (c) (2)****Item 4.1:**

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

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reports required by the permit.

Condition 5: Compliance Certification**Effective between the dates of 01/21/2022 and 01/20/2027****Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)****Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

Item 5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

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

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

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

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

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

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

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

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

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

Monitoring Frequency: SEMI-ANNUALLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

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determine the compliance status of the facility as specified in any special permit terms or conditions; and

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

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

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

iv. All annual compliance certifications may be submitted electronically or physically. Electronic reports shall be submitted using the Department's Air Compliance and Emissions Electronic-Reporting system (ACE). If the 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 9 Headquarters
270 Michigan Avenue
Buffalo, NY 14203-2915

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2023.
Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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.

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 106 days after the reporting period.
The initial report is due 4/15/2023.
Subsequent reports are due every 12 calendar month(s).

Condition 8: Recordkeeping requirements
Effective between the dates of 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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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

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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 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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

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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 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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

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compliance with the permit or applicable requirements.

Condition 17: Required Emissions Tests
Effective between the dates of 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

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 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 82, Subpart F

Item 19.1:

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

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

Condition 20: Exempt Activities - Maintenance of Control Equipment
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 20.1:

Owner of any emission source or unit that is listed as eligible to be exempt in 6 NYCRR Part 201-3.2(c), on the basis of the use of appropriate emission control device shall operate and maintain such device in a manner consistent with good engineering practices.

Condition 21: Trivial Activities - Maintenance of Control Equipment
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 201-3.3 (b)

Item 21.1:

The owner and /or operator of any emission source or unit that is listed as eligible to be trivial in 6 NYCRR Part 201-3.3(c), on the basis of the use of appropriate emission control device shall operate and maintain such device in a manner consistent with good engineering practices.

Condition 22: Emission Unit Definition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 22.1(From Mod 2):

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

Emission Unit: U-00020

Emission Unit Description:

This emission unit consists of a GE LM6000 combustion gas turbine generator system and a Deltak heat recovery steam generator (HRSG). The turbine is natural gas-fired and has a nominal capacity of 43 MW at a heat input of 430 MMBtu/hr (HHV). The HRSG has natural gas supplemental firing (duct burners) rated at approximately 144 MMBtu/hr. During simple cycle operation, defined as when the combustion turbine is operating (including startup and shutdown) and the duct burner is not operating, the turbine exhausts directly to EP 00020 or to EP 00021. During combined cycle operation, defined as when both the combustion turbine and duct burner are operating, the turbine exhausts through the HRSG to EP 00021. A low pressure SPRINT (SPRay INTERcooling) system and an Enhanced Flow System (EFS) were installed on the LM6000 gas turbine in 2005 to improve the efficiency and output of the system.

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Building(s): SA CARLSON

Item 22.2(From Mod 0):

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

Emission Unit: E-I0001

Emission Unit Description:

A Detroit Diesel reciprocating internal combustion engine that powers a 500 kW emergency generator. This engine is exempt from permitting, but subject to EPA's reciprocating internal combustion engine NESHAP, 40 CFR 63 subpart ZZZZ.

Building(s): SA CARLSON

Item 22.3(From Mod 0):

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

Emission Unit: U-00003

Emission Unit Description:

Emission Unit U00003 contains boiler #9 which fires natural gas as the primary fuel (rated at 198 MMBtu/hr) and distillate oil as the back-up fuel (rated at 100 MMBtu/hr). Boiler #9 exhausts to emission point 00003 (North Stack). Boiler #9 was converted from coal to natural gas as the primary fuel and distillate oil as the secondary fuel to comply with NOx RACT (fuel switching). This is described in process 09G and 09O. Boiler #9 is no longer capable of burning coal. Low NOx burners and flue gas recirculation are used to minimize NOx emissions. Boiler #12 was part of emission unit U00003 but was retired on December 30, 2013 and demolished in 2017.

Emission Unit 00003 consists of emission point 00003 (the North Stack), emission source 00001 (boiler #9), emission source/control LNB09 (low NOx burners), and emission source/control FGR09 (flue gas recirculation). Emission source/control 00003 (the electrostatic precipitator for boiler #9) is no longer used because the boiler was converted to natural gas/distillate oil and was removed in 2017.

Building(s): SA CARLSON

Item 22.4(From Mod 0):

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

Emission Unit: U-00004

Emission Unit Description:

This emission unit was created for emission point 4. One natural gas fired boiler (commonly known as boiler #10) emits to stack EP 00004, also known as the South Stack. This boiler is designated as large boiler and has a nominal heat input rate of 198 mmBtu/hr. The boiler fires natural gas only as described in process 10G. Low NOx

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burners and flue gas recirculation are used to minimize NO_x emissions.

Emission unit 4 consists of emission point 00004 (the south stack), emission source/control 00007 (boiler #10), emission source/control LNB10 (low NO_x burners), and emission source/control FGR10 (flue gas recirculation). Emission source/control 00009 (the electrostatic precipitator (ESP) for boiler #10) is no longer used because the boiler was converted from coal to natural gas and, as such, the ESP was retired and removed from the permit. The ESP was removed in 2017.

Building(s): SA CARLSON

Item 22.5(From Mod 0):

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

Emission Unit: U-00022

Emission Unit Description:

This emission unit consists of a 23.3 MMBtu/hr natural gas-fired boiler manufactured by Cleaver Brooks. This boiler supplements the district heating requirements. This boiler exhausts through EP 00022.

Building(s): SA CARLSON

Item 22.6(From Mod 0):

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

Emission Unit: U-00027

Emission Unit Description:

This emission unit is a nominal 73.5 MMBtu/hr package boiler. The boiler is fired using natural gas as its only fuel. It is one of the emission units that can be operated to provide hot water to the district heating system. This exhausts through emission point 00027.

Building(s): PB Bldg

Item 22.7(From Mod 0):

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

Emission Unit: U-00028

Emission Unit Description:

This emission unit is an 80 horsepower low pressure steam boiler with a nominal heat input rate of 3.2 MMBtu/hr. This is referred to as the DA (deaeration) Tank steam boiler. The boiler is fired using natural gas as its only fuel. This boiler exhausts through emission point 00028. The boiler is exempt from permitting because it is rated at less than 10 MMBtu/hr heat input (6NYCRR 201-3.2(c)(1)(i)), but it is included in the permit to document that it exists.

Building(s): SA CARLSON

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Condition 23: Progress Reports Due Semiannually
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 23.1:

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

- (i) dates for achieving the activities, milestones, or compliance required in the schedule of compliance, and dates when such activities, milestones or compliance were achieved; and
- (ii) an explanation of why any dates in the schedule of compliance were not or will not be met, and any preventive or corrective measures adopted.

Condition 24: Operational Flexibility
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 24.1:

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 2-1: Facility Permissible Emissions
Effective between the dates of 08/19/2024 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 2-1.1:

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

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

per year	CAS No: 000630-08-0 (From Mod 2)	PTE: 520,300 pounds
	Name: CARBON MONOXIDE	
per year	CAS No: 0NY075-00-5 (From Mod 2)	PTE: 62,000 pounds
	Name: PM-10	

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CAS No: 0NY210-00-0 (From Mod 2) PTE: 475,200 pounds
per year

Name: OXIDES OF NITROGEN

Condition 25: Notification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 202-1.2

Item 25.1:

A person who is required by the commissioner to submit a stack test report shall notify the commissioner, in writing, not less than 30 days prior to the test, of the time and date of the test. Such notification shall also include the acceptable procedures to be used to stack test including sampling and analytical procedures. Such person shall allow the commissioner, or his representative, free access to observe stack testing being conducted by such person.

Condition 26: Acceptable procedures

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 26.1:

Emission testing, sampling, and analytical determinations to ascertain compliance with this Subpart shall be conducted in accordance with test methods acceptable to the commissioner.

Condition 27: Acceptable procedures - Stack test report submittal

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 27.1:

Emission test reports must be submitted in triplicate to the commissioner within 60 days after the completion of the tests, unless additional time is requested in writing.

Condition 28: Alternate test methods

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 202-1.3

Item 28.1:

Alternate emission test methods or deviations from acceptable test methods may be utilized if it is impractical to utilize the acceptable test methods or where no applicable test method is available, if prior acceptance of the proposed alternate method is granted by the commissioner.

Condition 29: Separate emission test by the commissioner

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 202-1.4

Item 29.1:

The commissioner may conduct separate or additional emission tests on the behalf of the State

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to ascertain compliance or noncompliance with any air pollution code, rule, or regulation.

Condition 30: Prohibitions
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 202-1.5

Item 30.1:

No person shall conceal an emission by the use of air or other gaseous diluents to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

Condition 2-2: Statement dates for emissions statements.
Effective between the dates of 08/19/2024 and 01/20/2027

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

Item 2-2.1:

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

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

Condition 31: Visible Emissions Limited
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 211.2

Item 31.1:

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 32: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 32.1:

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The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 32.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart (225-1) must be tabulated and summarized in a form acceptable to the Department and must be retained for at least five years. The owner of a Title V facility must furnish to the Department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the Department. [6NYCRR 225-1.6(e)]

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 7/30/2022.

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

Condition 33: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 33.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Emission Unit: U-00004

Emission Unit: U-00020

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Emission Unit: U-00022

Emission Unit: U-00027

Emission Unit: U-00028

Item 33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a stationary combustion installation must perform an annual tune-up on each emission source subject to 6 NYCRR Subpart 227-1. Records of the tune-up shall be maintained at the facility or at a Department approved alternative location for a minimum of five years. The records shall, at a minimum, include the date the tune-up(s) occurred and the details of the tune-up procedures for each emission source, per 227-1.5(c)(3).

The annual tune-ups for the gas turbine will follow the manufacture’s recommended inspection and maintenance procedures. This includes annual borescope inspections of internal components which ensures proper operation, maximum performance / efficiency, and minimizes catastrophic failure of parts. In addition, all instruments and temperature and pressure probes are checked that monitor and control valves, lube oil, airflow, combustion flow and to maximize engine efficiency.

Monitoring Frequency: ANNUALLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 34.1:

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

Emission Unit: U-00003	Emission Point: 00003
Emission Unit: U-00004	Emission Point: 00004
Emission Unit: U-00020	Emission Point: 00020

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Emission Unit: U-00020 Emission Point: 00021

Emission Unit: U-00022 Emission Point: 00022

Emission Unit: U-00027 Emission Point: 00027

Emission Unit: U-00028 Emission Point: 00028

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

Item 34.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

- 1) No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity.

- 2) In the event the combustion installation experiences operational problems which could result in smoke, a trained opacity observer shall make an opacity observation. The opacity observer shall:
 - a) Observe the opacity from the emission point. Each opacity observation shall be performed at a location with the proper sun angle, background, and line of sight as required by EPA Method 9. The observer must be trained and knowledgeable regarding the effects on the visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting, wind, and the presence of uncombined water (condensing water vapor).
 - b) If the instantaneous opacity is 10% or greater, then the permittee shall:
 - i) conduct an EPA Method 9 opacity observation for three consecutive 6-minute periods,
 - ii) conduct an inspection of the process and control device, and
 - iii) record in a log the date, time, staff name, results of each opacity/Method 9 observation, inspection findings, and the corrective actions taken. The log shall be made available for Department review upon request.

- 3) If any of the initial Method 9 6-minute average opacities exceed 20% then corrective actions shall be taken to reduce opacity below 20%. Another three consecutive 6-minute opacity observations shall be

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conducted and recorded after the corrective actions have been made, using EPA Method 9 to confirm opacity remains below 20%.

4.) Each event which exceeds the 20% opacity standard shall be reported as a deviation in the semiannual report. The details of each deviation shall be included in the semiannual report and include at least the date, time, initial opacity observations, corrective actions taken, and follow up opacity observations.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 2-3: Compliance Certification**Effective between the dates of 08/19/2024 and 01/20/2027****Applicable Federal Requirement: 6 NYCRR 227-3.5 (b) (1) (ii)****Item 2-3.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00020

Regulated Contaminant(s):

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

Item 2-3.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx emission limit, GT SIMPLE cycle, during Ozone Season 2025

1) On and after May 1, 2025, when the combustion gas turbine operates in simple cycle mode during the Ozone Season (May 1 – September 30 each calendar year), the daily NOx emissions must not exceed 1.5 lb NOX/MWh as an effective daily weighted average emission limit [per 227 3.5(b)(1)(ii)]. This limit includes electrical generation by renewable energy resources at the facility connected to the same substation as the affected turbine.

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The effective rate shall be calculated according to the equation provided in 227-3.5(b)(3):

$$1.5 \text{ lb NO}_x/\text{MWh} \geq \text{Mass NO}_x/\text{MWh}_{\text{CT}+\text{MWh}_{\text{RE}}}$$

emission limit \geq mass emission rate

where:

(a) MassNO_x = NO_x emissions (pounds) each day from all applicable SCCTs at the permitted facility.

(b) MWh_{CT} = electrical energy delivered to the transmission and distribution system (in MWh) from applicable SCCTs at the permitted facility each day.

(c) MWh_{RE} = electrical energy delivered to the transmission and distribution system (in MWh) from renewable generation each day.

2) Compliance with this emission limit will be determined with a Continuous Emissions Monitoring System (CEMS) consistent with the provisions of subdivision 227-2.6(b) of 6NYCRR Subpart 227-2. [per 227-3.4(a)(3) 7(a)(2)].

3) Emission information and supporting information must be kept for at least five years.

4) Operational data must be reported to the Department as part of the annual compliance report. The report must be in a form prescribed by the Department. The operational data must include 1-hour NO_x emissions from each SCCT for each compliance period, daily electrical generation in MWh injected into the transmission or distribution system from each SCCT and renewable generation resource, and each hour of the 24- hour period when a renewable energy generation resource injects power into the transmission or distribution system [per 227-3.7(b)(1) and (2)].

5) In the event that emissions of air contaminants in excess of any emission standard in Subpart 227-3 occur, the facility owner or operator shall compile and maintain records of the exceedance and notify the Department as soon as possible during normal working hours, but not later than two working days after becoming aware that the exceedance occurred. When requested by the Department, the facility owner or operator shall submit a written report

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to the Department describing the malfunction, the corrective action taken and an estimate of the emission rates [per 227-3.7(b)(3)].

The Averaging Method shall follow the daily weighted average as described in paragraph 1 of this condition.

Manufacturer Name/Model Number: Horiba GH-7420CL
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 1.5 pounds per megawatt hour
 Reference Test Method: 40 CFR 60 Appdix B
 Monitoring Frequency: CONTINUOUS
 Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2025.
 Subsequent reports are due every 12 calendar month(s).

Condition 35: Applicability of Subpart A General Provisions
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60, NSPS Subpart A

Item 35.1:

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

Condition 36: EPA Region 2 address.
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 36.1:

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

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**Condition 37: Date of construction notification - If a COM is not used.
Effective between the dates of 01/21/2022 and 01/20/2027**

Applicable Federal Requirement:40CFR 60.7(a), NSPS Subpart A

Item 37.1:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, post marked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, post marked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under this part. The notice shall be post marked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;
- 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, post marked not less than 30 days prior to such date;
- 6) a notification of the anticipated date for conducting the opacity observations, post marked not less than 30 days prior to such date.

**Condition 38: Recordkeeping requirements.
Effective between the dates of 01/21/2022 and 01/20/2027**

Applicable Federal Requirement:40CFR 60.7(b), NSPS Subpart A

Item 38.1:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

**Condition 39: Facility files for subject sources.
Effective between the dates of 01/21/2022 and 01/20/2027**

Applicable Federal Requirement:40CFR 60.7(f), NSPS Subpart A

Item 39.1:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable

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for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 40: Compliance with Standards and Maintenance Requirements
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.11(d), NSPS Subpart A

Item 40.1:

At all times, including periods of startup, shutdown, and malfunction, owners and operators of this facility shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Department and the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

Condition 41: Circumvention.
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 41.1:

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 42: Continuous Monitoring Requirements
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.13(a), NSPS Subpart A

Item 42.1: For the purposes of this section, 40 CFR Part 60.13, all continuous monitoring systems required under applicable subparts of 40 CFR Part 60 shall be subject to the provisions of this section, upon promulgation of performance specifications for continuous monitoring systems under appendix B to this part, 40 CFR Part 60, and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, appendix F to this part, unless otherwise specified in an applicable subpart or by the Administrator.

Condition 43: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.13(d), NSPS Subpart A

Item 43.1:

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

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Facility DEC ID: 9060800053

Emission Unit: U-00020

Item 43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Owners and operators of all continuous emission monitoring systems installed in accordance with the provisions of this part shall check the zero (or low-level value between 0 and 20 percent of span value) and span (50 to 100 percent of span value) calibration drifts at least once daily in accordance with a written procedure. The zero and span shall, as a minimum, be adjusted whenever the 24-hour zero drift or 24-hour span drift exceeds two times the limits of the applicable performance specifications in appendix B. The system must allow the amount of excess zero and span drift measured at the 24-hour interval checks to be recorded and quantified, whenever specified.

Reference Test Method: 40 CFR 60 Appendix B

Monitoring Frequency: DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2022.

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

Condition 44: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 60.13(e), NSPS Subpart A

Item 44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00020

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under 40CFR60.13(d), all continuous monitoring systems shall be in continuous operation and shall meet minimum frequency of operation requirements as follows: All continuous monitoring systems referenced by 40CFR60.13(c) for measuring emissions, except opacity, shall complete a minimum of one cycle of operation (sampling, analyzing,

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and data recording) for each successive 15-minute period.

Reference Test Method: 40CFR60 Appendices
Monitoring Frequency: CONTINUOUS
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2022.
Subsequent reports are due every 3 calendar month(s).

Condition 45: Monitoring Requirements
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.13(h), NSPS Subpart A

Item 45.1: Owners or operators of all continuous monitoring systems for measurement of opacity shall reduce all data to 6-minute averages and for continuous monitoring systems other than opacity to 1-hour averages for time periods as defined in §60.2. Six-minute opacity averages shall be calculated from 36 or more data points equally spaced over each 6-minute period. For continuous monitoring systems other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments shall not be included in the data averages computed under this paragraph. An arithmetic or integrated average of all data may be used. The data may be recorded in reduced or non reduced form (e.g., ppm pollutant and percent O₂ or ng/J of pollutant). All excess emissions shall be converted into units of the standard using the applicable conversion procedures specified in subparts. After conversion into units of the standard, the data may be rounded to the same number of significant digits as used in the applicable subparts to specify the emission limit.

Condition 46: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 46.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00022

Emission Unit: U-00027

Item 46.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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

Monitoring Frequency: DAILY

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 47: Physical change to boiler
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 63.11210(i), Subpart JJJJJJ

Item 47.1:

The owner or operator of an affected boilers that switch fuels or make a physical change to the boiler that results in the applicability of a different subcategory within subpart JJJJJJ or the boiler becoming subject to subpart JJJJJJ must demonstrate compliance within 180 days of the effective date of the fuel switch or the physical change. Notification of such changes must be submitted according to 40 CFR 63.11225(g).

Condition 48: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 48.1:

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

Emission Unit: E-I0001

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

Continuous compliance will then be demonstrated according

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to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 49: Facility Subject to Title IV Acid Rain Regulations and Permitting
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40 CFR Part 72

Item 49.1: This facility is subject to the Title IV Acid Rain Program regulations found in 40 CFR Parts 72, 73, 75, 76, 77, and 78. In accordance with those requirements, a separate Title IV Acid Rain permit has been issued to the facility. The facility owner or operator shall maintain a copy of the Title IV Acid Rain permit together with this Title V permit in the facility’s files.

Condition 50: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 97.1006, Subpart GGGGG

Item 50.1:
 The Compliance Certification activity will be performed for the Facility.

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

Item 50.2:
 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

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

(3) The emissions data determined shall be used to calculate allocations of CSAPR NOx Ozone Season allowances and to determine compliance with the CSAPR NOx Ozone 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 51: Emission Point Definition By Emission Unit
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 51.1(From Mod 0):

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

Emission Unit: U-00003

Emission Point: 00003

Height (ft.): 195

Diameter (in.): 120

NYTMN (km.): 4668.909

NYTME (km.): 148.698

Building: SA CARLSON

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Item 51.2(From Mod 0):

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

Emission Unit: U-00004

Emission Point: 00004
 Height (ft.): 195 Diameter (in.): 84
 NYTMN (km.): 4668.897 NYTME (km.): 148.693 Building: SA CARLSON

Item 51.3(From Mod 0):

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

Emission Unit: U-00020

Emission Point: 00020
 Height (ft.): 130 Diameter (in.): 144
 NYTMN (km.): 4668.876 NYTME (km.): 148.724 Building: SA CARLSON

Emission Point: 00021
 Height (ft.): 200 Diameter (in.): 144
 NYTMN (km.): 4668.899 NYTME (km.): 148.727 Building: SA CARLSON

Item 51.4(From Mod 0):

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

Emission Unit: U-00022

Emission Point: 00022
 Height (ft.): 77 Diameter (in.): 28
 NYTMN (km.): 4668.901 NYTME (km.): 148.721 Building: SA CARLSON

Item 51.5(From Mod 0):

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

Emission Unit: U-00027

Emission Point: 00027
 Height (ft.): 50 Diameter (in.): 36
 NYTMN (km.): 4668.92 NYTME (km.): 148.734 Building: PB Bldg

Item 51.6(From Mod 0):

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

Emission Unit: U-00028

Emission Point: 00028
 Height (ft.): 85 Diameter (in.): 16
 NYTMN (km.): 4668.894 NYTME (km.): 148.676 Building: SA CARLSON

Condition 52: Process Definition By Emission Unit
Effective between the dates of 01/21/2022 and 01/20/2027

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Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 52.1(From Mod 2):

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

Emission Unit: U-00020

Process: DB1

Source Classification Code: 1-01-006-01

Process Description:

This process is the exclusive firing of the duct burner using natural gas. (This process is not actually possible since the duct burner cannot fire without the turbine. The process was defined because 40CFR60 subpart Db applies to the duct burner only.)

Emission Source/Control: 00021 - Combustion

Design Capacity: 144 million Btu per hour

Item 52.2(From Mod 2):

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

Emission Unit: U-00020

Process: GT1

Source Classification Code: 2-02-002-03

Process Description:

This process is a GE LM6000 gas turbine and Deltak HRSG with supplemental firing of a duct burner, with both the turbine and duct burner firing natural gas. NOx from the turbine is controlled by water injection.

Emission Source/Control: 00020 - Combustion

Design Capacity: 430 million Btu per hour

Emission Source/Control: 00021 - Combustion

Design Capacity: 144 million Btu per hour

Emission Source/Control: 00019 - Control

Control Type: STEAM OR WATER INJECTION

Item 52.3(From Mod 2):

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

Emission Unit: U-00020

Process: GT2

Source Classification Code: 2-02-002-03

Process Description:

This process is the GE LM6000 combustion gas turbine only, firing natural gas. NOx from the turbine is controlled by water injection. The duct burner is not operating.

Emission Source/Control: 00020 - Combustion

Design Capacity: 430 million Btu per hour

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Emission Source/Control: 00019 - Control
 Control Type: STEAM OR WATER INJECTION

Item 52.4(From Mod 0):

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

Emission Unit: E-I0001
 Process: GEN Source Classification Code: 2-02-001-02
 Process Description:
 Detroit Diesel engine powers 500 kW emergency generator.

Emission Source/Control: GENST - Combustion
 Design Capacity: 840 horsepower (mechanical)

Item 52.5(From Mod 0):

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

Emission Unit: U-00003
 Process: 09G Source Classification Code: 1-01-006-01
 Process Description:

Firing natural gas in one wall fired boiler (#9) that exhausts through stack EP00003. The rated heat input while burning natural gas is 198 MMBtu/hr. Boiler #9 can switch from natural gas to fuel oil at minimum firing rates. Once the oil fire has stabilized the gas will be shutdown. Gas is used to ignite the oil. This is not considered co-firing. Operations during this fuel switching will be part of this process.

Low NOx burners and flue gas recirculation minimize NOx emissions from the boiler. Boiler #9 is classified as a large boiler. This boiler will use Part 75 Low Mass Emission (LME) methodology to estimate SO2, NOx and CO2 mass emissions, NOx emission rate (lb/MMBtu), and unit heat input instead of a Part 75 continuous emissions monitoring system (CEMS) as allowed by 40 CFR 75.19.

Emission Source/Control: 00001 - Combustion
 Design Capacity: 198 million Btu per hour

Emission Source/Control: FGR09 - Control
 Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: LNB09 - Control
 Control Type: LOW NOx BURNER

Item 52.6(From Mod 0):

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

Emission Unit: U-00003
 Process: 09O Source Classification Code: 1-01-006-01
 Process Description:

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Firing distillate oil in a boiler #9, a one wall fired boiler that exhausts through stack EP00003. While burning oil the rated heat input is 100 MMBtu/hr. Low NOx burners and flue gas recirculation minimize NOx emissions from the boiler. Boiler #9 is classified as a large boiler. This boiler will use Part 75 Low Mass Emission (LME) methodology to estimate SO₂, NO_x and CO₂ mass emissions, NO_x emission rate (lb/MMBtu), and unit heat input instead of a Part 75 continuous emissions monitoring system (CEMS) as allowed by 40 CFR 75.19.

The rated heat input from oil, 100 MMBtu/hr, is less than the rated heat input for natural gas, 198 MMBtu/hr, because the facility had to choose an oil burner that could operate in the lower half or upper half of the boiler heat capacity. A burner for the lower heat range was selected, that way the unit could start up on oil. If the a burner for the upper heat range was selected the unit could not start on oil.

Emission Source/Control: 00001 - Combustion
Design Capacity: 198 million Btu per hour

Emission Source/Control: FGR09 - Control
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: LNB09 - Control
Control Type: LOW NOx BURNER

Item 52.7(From Mod 0):

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

Emission Unit: U-00004
Process: 10G Source Classification Code: 1-01-006-01
Process Description:

Firing natural gas in one wall fired boiler (#10) that exhausts through stack (emission point) 00004. Low NOx burners and flue gas recirculation control NOx emissions from the boiler. Boiler #10 is classified as a large boiler. This boiler will use Part 75 Low Mass Emission (LME) methodology to estimate SO₂, NO_x and CO₂ mass emissions, NO_x emission rate (lb/MMBtu), and unit heat input instead of a Part 75 continuous emissions monitoring system (CEMS) as allowed by 40 CFR 75.19.

Emission Source/Control: 00007 - Combustion
Design Capacity: 198 million Btu per hour

Emission Source/Control: FGR10 - Control
Control Type: FLUE GAS RECIRCULATION

Emission Source/Control: LNB10 - Control

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Control Type: LOW NOx BURNER

Item 52.8(From Mod 0):

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

Emission Unit: U-00022
 Process: 010 Source Classification Code: 1-02-006-02
 Process Description:
 This process is a 23.3 mmBtu/hr package boiler firing natural gas. This boiler supplements the district heating requirements.

Emission Source/Control: 00022 - Combustion
 Design Capacity: 23.3 million Btu per hour

Item 52.9(From Mod 0):

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

Emission Unit: U-00027
 Process: GAS Source Classification Code: 1-02-006-02
 Process Description:
 This process is for a package boiler with a fuel input rate of 73.5 MMBtu/hr that operates to produce hot water for the district heating service. The boiler is natural gas fired with low NOx burners and is operated up to 8760 hours per year.

Emission Source/Control: 00027 - Combustion
 Design Capacity: 73.5 million Btu per hour

Item 52.10(From Mod 0):

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

Emission Unit: U-00028
 Process: 28G Source Classification Code: 1-02-006-03
 Process Description:
 This process involves the combustion of natural gas in the DA (deaeration) Tank steam boiler. This boiler is exempt from permitting but included in the permit so it is documented.

Emission Source/Control: 00028 - Combustion
 Design Capacity: 3.2 million Btu per hour

Condition 53: Emission Unit Permissible Emissions
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 201-7.1

Item 53.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited

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shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00003

CAS No: 0NY210000 (From Mod 0)

Name: OXIDES OF NITROGEN

PTE(s): 50,000 pounds per year

Emission Unit: U-00004

CAS No: 0NY210000 (From Mod 0)

Name: OXIDES OF NITROGEN

PTE(s): 50,000 pounds per year

Emission Unit: U-00022

CAS No: 000630080 (From Mod 0)

Name: CARBON MONOXIDE

PTE(s): 17,400 pounds per year

CAS No: 0NY075005 (From Mod 0)

Name: PM-10

PTE(s): 1,600 pounds per year

CAS No: 0NY210000 (From Mod 0)

Name: OXIDES OF NITROGEN

PTE(s): 10,000 pounds per year

Condition 54: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 63.11223(c), Subpart JJJJJ

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

ICI Boiler with Oxygen Trim - Tune-up

1.) Boilers with an oxygen trim system that maintain an optimum air-to-fuel ratio that would otherwise be subject to a biennial tune-up must conduct a tune-up of the boiler every 5 years as specified in 40 CFR 63.11223(b)(1) through (7). Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up. For a new or reconstructed boiler with an oxygen trim system, the first

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5-year tune-up must be no later than 61 months after the initial startup. The owner or operator may delay the burner inspection specified in 40 CFR 63.11223(b)(1) and inspection of the system controlling the air-to-fuel ratio specified in 40 CFR 63.11223(b)(3) until the next scheduled unit shutdown, but he/she must inspect each burner and system controlling the air-to-fuel ratio at least once every 72 months. If an oxygen trim system is utilized on a unit without emission standards to reduce the tune-up frequency to once every 5 years, set the oxygen level no lower than the oxygen concentration measured during the most recent tune-up.

2.) Submit a signed statement in the Notification of Compliance Status report that indicates that you conducted an initial tune-up of the boiler, per 40 CFR 63.11214(b).

3.) The requirements of the Notification of Compliance Status report are listed in 40 CFR 63.11225(a)(4). Note that 40 CFR 63.11225(a)(4)(vi) states that the notification must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written Notification of Compliance Status must be submitted to the Administrator at the appropriate address listed in §63.13.

Monitoring Frequency: Once every five years

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 55: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 63.11225(b), Subpart JJJJJJ

Item 55.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator must prepare, by March 1 of each year, and submit to the delegated authority upon request, an annual compliance certification report for the previous calendar year containing the information specified in

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paragraphs (1) through (4). The owner or operator must submit the report by March 15 if he/she had any instance described by paragraph (3). For boilers that are subject only to the energy assessment and/or a requirement to conduct a biennial or 5- year tune-up according to 40 CFR 63.11223(a) and not subject to emission limits or operating limits, the owner or operator may prepare only a biennial or 5-year compliance report as specified in paragraphs (1) and (2).

(1) Company name and address.

(2) Statement by a responsible official, with the official's name, title, phone number, email address, and signature, certifying the truth, accuracy and completeness of the notification and a statement of whether the source has complied with all the relevant standards and other requirements of subpart JJJJJ. The owner's or operator's notification must include the following certification(s) of compliance, as applicable, and signed by a responsible official:

(i) "This facility complies with the requirements in 40 CFR 63.11223 to conduct a biennial or 5-year tune-up, as applicable, of each boiler."

(ii) For units that do not qualify for a statutory exemption as provided in section 129(g)(1) of the Clean Air Act: "No secondary materials that are solid waste were combusted in any affected unit."

(iii) "This facility complies with the requirement in 40 CFR 63.11214(d) and 63.11223(g) to minimize the boiler's time spent during startup and shutdown and to conduct startups and shutdowns according to the manufacturer's recommended procedures or procedures specified for a boiler of similar design if manufacturer's recommended procedures are not available."

(3) If the source experiences any deviations from the applicable requirements during the reporting period, include a description of deviations, the time periods during which the deviations occurred, and the corrective actions taken.

(4) The total fuel use by each affected boiler subject to an emission limit, for each calendar month within the reporting period, including, but not limited to, a description of the fuel, whether the fuel has received a non-waste determination by you or EPA through a petition process to be a non-waste under 40 CFR 241.3(c), whether the fuel(s) were processed from discarded non-hazardous

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secondary materials within the meaning of 40 CFR 241.3,
and the total fuel usage amount with units of measure.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 56: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 227-2.5 (a)

Item 56.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Emission Point: 00003

Regulated Contaminant(s):

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Boiler #9 NOx RACT

1) Boiler #9 (emission source 00001) is a “large boiler” as defined under Part 227-2 and fires pipeline quality natural gas as a primary fuel and fires ultra-low sulfur distillate oil as a backup fuel. This boiler shall meet the NOx RACT requirements by switching fuels from coal to natural gas and distillate oil, as allowed under 6NYCRR Part 227-2.5(a). Pursuant to 6NYCRR 227-2.5(a), boiler #9 is subject to an annualized NOx RACT limit that is equal to the presumptive NOx RACT limit for the pre-conversion fuel. In the case of boiler #9, the presumptive NOx RACT limit for pulverized coal firing is 0.20 lb/MMBtu [6 NYCRR 227-2.4(b)(1)(ii)]. The annual NOx emission rate for this boiler (which was rated at 190 MMBtu/hr on coal) operating at full load for 8760 hours per year at the presumptive NOx RACT limit is 166.4 tons per year.

However, the owner/operator of this boiler is electing to limit NOx emissions to 25 tons per year on a 52-week rolling total basis in order to create emission reduction credits (ERC’s). The 25 tons per year limit will result in quantifiable annual NOx emissions equal to or less than the NOx emissions expected if the emission source complied with the applicable presumptive RACT emission limits for coal set forth in section 227-2.4.

2) The facility has opted to follow the procedures in

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40CFR 75.19 (Low Mass Emissions [LME] methodology) to determine NOx mass emissions from boiler #9.

3) Compliance with the NOx limit shall be based on a initial stack test in accordance with test requirements described in 6NYCRR 227-6(c) and 40 CFR 75.19(c)(1)(iv). Subsequent stack tests shall be performed every 20 calendar quarters thereafter. A compliance test report containing the results of the emission test shall be submitted to the department for approval no later than 60 days after completion of each emission test.

4) Report the weekly rolling total semiannually.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 tons

Reference Test Method: Method 7, 7E or 19 from 40CFR60, App A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 57: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR Subpart 231-10

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Emission Point: 00003

Regulated Contaminant(s):

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

Item 57.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

NOx ERC's from EU 00003 (boiler #9) EP 00003 (north stack) - Year 2015

1) This condition establishes federal enforceability of an emission limit to CREATE emission reduction credits by curtailment of NOx emissions from existing emission unit U-00003. The NOx emissions from this emission unit will be curtailed to 25.0 tons per year to create emission reduction credits (ERC's), effective upon issuance of Permit Renewal 2 Modification 0 during calendar year 2021.

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2) EMISSION REDUCTION DESCRIPTION: The existing electric power plant has accepted an annual NO_x emission limit of 25.0 ton/year on the north stack (EP00003, Boiler 9) in order to create 10.1 tons of NO_x emission reduction credits.

3) CONTAMINANT EMISSION REDUCTION DATA:
Baseline Period: 07/01/2009 to 06/30/2011
Reduction Date: June 23, 2014 (Fuel switching)
Method Used to Reduce Emissions: 02- curtailment.
CAS No. of the Nonattainment Contaminant for which ERCs are Being Requested: 0NY210-00-0.
Contaminant Name: Oxides of Nitrogen (NO_x)
Amount of ERC which is to be used for Netting: 0.0 lbs/yr (0.0 tons/yr).
Amount of ERC created : 20,200 lbs/yr (10.1 tons/yr)

4) FACILITY TO USE EMISSION REDUCTION CREDITS:
Name: ERC's were created for use at a later time.

5) FEDERALLY ENFORCEABLE EMISSION LIMIT:
As provided for in 6 NYCRR 201-7.1(a), a source owner or operator may elect to accept federally enforceable permit terms and conditions which restrict or cap emissions from a stationary source or emission unit where needed to establish an emission reduction credit as defined under 6 NYCRR subpart 231-10. NO_x emissions from this emission unit are limited to 25.0 ton/yr, on a 52-week rolling total basis. Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week total NO_x emissions as measured following 40CFR 75. This source is expected to follow the Low Mass Emissions [LME] methodology in 40CFR 75.19. This emission limit will be used to create 10.1 tons of ERCs as calculated on the ERC Quantification Form attached to the original permit application, and revised on May 13, 2015. The limit becomes effective upon issuance of this permit.

6) The semiannual compliance reporting shall include the previous 52-week NO_x emissions from this emission unit summed for each week of the reporting period and compared to the 25.0 ton limit.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25.0 tons per year

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL MAXIMUM ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 58: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 63.11225(c), Subpart JJJJJJ

Item 58.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003

Emission Point: 00003

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an industrial, commercial, or institutional boiler must maintain the records specified in paragraphs (1) through (7).

(1) As required in 40 CFR 63.10(b)(2)(xiv), the owner or operator must keep a copy of each notification and report that he/she submitted to comply with subpart JJJJJJ and all documentation supporting any Initial Notification or Notification of Compliance Status that he/she submitted.

(2) The owner or operator must keep records to document conformance with the work practices, emission reduction measures, and management practices required by 40 CFR 63.11214 and 40 CFR 63.11223 as specified in paragraphs (i) through (vi).

(i) Records must identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

(ii) Not applicable.

(iii) For each boiler required to conduct an energy assessment, the owner or operator must keep a copy of the energy assessment report.

(iv) Not applicable.

(v) Not applicable.

(vi) Not applicable.

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- (3) Not applicable.
- (4) Records of the occurrence and duration of each malfunction of the boiler, or of the associated air pollution control and monitoring equipment.
- (5) Records of actions taken during periods of malfunction to minimize emissions in accordance with the general duty to minimize emissions in 40 CFR 63.11205(a), including corrective actions to restore the malfunctioning boiler, air pollution control, or monitoring equipment to its normal or usual manner of operation.
- (6) The owner or operator must keep the records of all inspection and monitoring data required by 40 CFR 63.11221 and 63.11222, and the information identified in paragraphs (i) through (vi) for each required inspection or monitoring.
 - (i) The date, place, and time of the monitoring event.
 - (ii) Person conducting the monitoring.
 - (iii) Technique or method used.
 - (iv) Operating conditions during the activity.
 - (v) Results, including the date, time, and duration of the period from the time the monitoring indicated a problem to the time that monitoring indicated proper operation.
 - (vi) Maintenance or corrective action taken (if applicable).
- (7) Not applicable.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 59: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00003
 Process: 09O

Emission Point: 00003

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

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

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

- 1) While burning oil in Boiler #9, alone or in combination with any other liquid or gaseous fuels, emissions of particulate matter shall not exceed 0.10 pounds per million Btu heat input. Boiler #9 is not subject to particulate limits in applicable New Source Performance Specifications (NSPS, 40 CFR 60) or National Emission Standards for Hazardous Air Pollutants (NESHAP, 40 CFR 63) regulations. [227-1.2(a)]

- 2) Compliance testing may be required upon request by the Department. When testing is requested an emission testing protocol must be submitted at least 30 days prior to the planned test date. The compliance test report shall be submitted to the Department within 60 days of completing the emission test. [Part 227-1.5(a)(1) and (3)]

- 3) All records, department approved compliance testing protocols, and test results must be maintained on site or at an alternative location, as approved by the department, for a minimum of five years. [227-1.5(c)(1)]

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA Method 5

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 60: Capping Monitoring Condition
 Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 60.1:

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

- 6 NYCRR 227-2.4 (b) (1)
- 6 NYCRR 231-2.2

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

40 CFR 52.21

Item 60.2:

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

Item 60.3:

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

Item 60.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 60.5:

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

Item 60.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00004

Regulated Contaminant(s):

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

Item 60.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition created 125.0 tons of NO_x emission reduction credits from emission unit 00004 by limiting emissions to 145.0 tons a year in year 2000. This permit, Renewal 2, Modification 0 (issued in 2021), includes a condition that limits NO_x emissions from emission unit 00004 to 25.0 tons per year to create 10.1 tons of NO_x ERCs. This condition was kept in the permit for historical purposes. Compliance with the 25 tpy cap demonstrates compliance with this permit condition.

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Facility DEC ID: 9060800053

1) This condition established federal enforceable emission capping to CREATE emission reduction credits by curtailment of NOx emissions from existing emission unit U-00004.

2) EMISSION REDUCTION DESCRIPTION: The existing electric power plant has accepted an annual NOx emission limit of 145.0 ton/yr on the south stack (EP00004) in order to create 125.5 tons of NOx emission reduction credits to be used at the same facility as part of a Net Emission Increase Determination of Non-Applicability for the JBPU gas turbine expansion project (Permit Id 9-0608-00053/00027, issued in year 2000). The reduction date will be the day of commencement of operation of the JBPU turbine expansion project, where "commence operation" allows for a shakedown period not to exceed 180 days as defined in 6 NYCRR section 231-2.1. (The gas turbine became operational during 2001.)

3) CONTAMINANT EMISSION REDUCTION DATA:
Baseline Period: 01/01/1997 to 12/31/1998.
Reduction Date: The day of commencement of operation of the JBPU turbine expansion project.
Method Used to Reduce Emissions: 02- curtailment.
CAS No. of the Nonattainment Contaminant for which ERCS are Being Requested: 0NY210-00-0.
Contaminant Name: Oxides of Nitrogen (NOx)
Amount of ERC which is to be used for Netting: 251,000 lbs/yr.

4) FACILITY TO USE FUTURE REDUCTION:
Name: Samuel A. Carlson Generating Station
Address: 136 Steele Street, City of Jamestown, NY 14701
Application Id: 9-0608-00053/00027.

5) FEDERALLY ENFORCEABLE EMISSION CAP:
As provided for in 6 NYCRR subpart 201-7, a source owner or operator may elect to accept federally enforceable permit terms and conditions which restrict or cap emissions from a stationary source or emission unit where needed to establish an emission reduction credit as defined under 6 NYCRR subpart 231-2. NOx emissions from this emission unit are limited to 145.0 ton/yr, on a 52-week rolling total basis. Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week total NOx emissions by following the procedures in 40 CFR 75.19 (Low Mass Emissions [LME] methodology). This limit will be used to create 125.5 tons of ERCs as calculated on the ERC Quantification Form attached to the original permit application. The limit becomes effective the day of commencement of operation of

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the JBPU turbine expansion project (Permit Id. - 9-0608-00053/00027), where "commence operation" allows for a shakedown period not to exceed 180 days as defined in 6 NYCRR section 231-2.1.

6) The periodic compliance reporting shall include the previous 52-week NOx emissions from this emission unit summed for each week of the reporting period, comparing actual emissions to the 145.0 ton limit.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 145.0 tons per year

Reference Test Method: Method 7, 7E or 19 from 40CFR60, App A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2022.

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

Condition 61: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 227-2.5 (a)

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00004

Emission Point: 00004

Regulated Contaminant(s):

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

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Boiler #10 NOx RACT

1) Boiler #10 (emission source 00007) is a “large boiler” as defined under Part 227-2 and fires pipeline quality natural gas. This boiler will meet the NOx RACT requirements by switching fuels from coal to natural gas, as allowed under 6NYCRR Part 227-2.5(a). Pursuant to 6NYCRR 227-2.5(a), boiler #10 is subject to an annualized NOx RACT limit that is equal to the presumptive NOx RACT limit for the pre-conversion fuel. In the case of boiler #10, the presumptive NOx RACT limit for pulverized coal firing is 0.20 lb/MMBtu [6 NYCRR 227-2.4(b)(1)(ii)]. The annual NOx emission rate for this boiler (which was rated

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Facility DEC ID: 9060800053

at 190 MMBtu/hr on coal) operating at full load for 8760 hours per year at the presumptive NOx RACT limit is 166.4 tons per year, which is greater than the current NOx cap of 145.0 tons per year. The 145 ton per year cap was enacted when the combustion gas turbine, emission unit 20, was installed so that project could net out of PSD in 2001.

However, the owner/operator of this boiler is electing to limit NOx emissions to 25 tons per year on a 52-week rolling total basis in order to create emission reduction credits (ERC's). The 25 tons per year limit will keep NOx emissions below the presumptive NOx RACT satisfies the NOx RACT requirement.

Fuel switching must result in quantifiable annual NOx emissions equal to or less than the NOx emissions expected if the emission source complied with the applicable presumptive RACT emission limits set forth in section 227-2.4 of this Subpart.

2) The facility has opted to follow the procedures in 40CFR 75.19 (Low Mass Emissions [LME] methodology) to determine NOx mass emissions from boiler #10.

3) Compliance with the NOx limit shall be based on a initial stack test in accordance with test requirements described in 6NYCRR 227-2.6(c) and 40 CFR 75.19(c)(1)(iv). Subsequent stack tests shall be performed every 20 calendar quarters thereafter. A compliance test report containing the results of the emission test shall be submitted to the department for approval no later than 60 days after completion of each emission test.

4) Report the weekly rolling total emissions semiannually.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25 tons

Reference Test Method: Method 7, 7E or 19 from 40CFR60, App A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 62: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR Subpart 231-10

Item 62.1:

The Compliance Certification activity will be performed for:

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Emission Unit: U-00004

Emission Point: 00004

Regulated Contaminant(s):

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

Item 62.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

NOx ERC's from EU 00004 (boiler #10) EP 00004 (south
stack) - Year 2015

1) This condition establishes federal enforceability of capping to CREATE emission reduction credits (ERC's) by curtailment of NOx emissions from existing emission unit U-00004. The NOx emissions from this emission unit will be curtailed to 25 tons per year to create emission reduction credits, effective upon issuance of Permit Renewal 2 Modification 0 during calendar year 2021. These are in addition to the 125.5 tons of NOx ERC's created in a separate permit condition for the gas turbine project in year 2001.

2) EMISSION REDUCTION DESCRIPTION: The existing electric power plant has accepted an annual NOx emission limit of 25.0 tons per year on the south stack (EP00004, Boiler 10) in order to create 17.7 tons of NOx emission reduction credits.

3) CONTAMINANT EMISSION REDUCTION DATA:
Baseline Period: 04/01/2008 to 03/31/2010
Reduction Date: November 28, 2012 (Fuel Switching)
Method Used to Reduce Emissions: 02- curtailment
CAS No. of the Nonattainment Contaminant for which ERCs
are Being Requested: 0NY210-00-0
Contaminant Name: Oxides of Nitrogen (NOx)
Amount of ERC which is to be used for Netting: 0.0 lbs/yr
(0.0 tons/yr)
Amount of ERC created : (17.7 tons/yr)

4) FACILITY TO USE FUTURE REDUCTION:
Name: ERC's were created for use at a later time.

5) FEDERALLY ENFORCEABLE EMISSION CAP:
As provided for in 6 NYCRR 201-7.1(a), a source owner or operator may elect to accept federally enforceable permit terms and conditions which restrict or cap emissions from a stationary source or emission unit where needed to establish an emission reduction credit as defined under 6

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NYCRR subpart 231-10. NOx emissions from this emission unit are limited to 25.0 ton/yr, on a 52-week rolling total basis. Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week total NOx emissions as measured following 40CFR 75. This source is expected to follow the Low Mass Emissions [LME] methodology in 40CFR 75.19. This limit will be used to create 17.7 tons of ERCs as calculated on the ERC Quantification Form attached to the original permit application, and revised on May 13, 2015. The limit becomes effective upon issuance of this permit.

6) The semiannual compliance reporting shall include the previous 52-week NOx emissions from this emission unit summed for each week of the reporting period and compared to the 25.0 ton limit.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 25.0 tons per year

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL MAXIMUM ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 63: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 63.1:

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

6 NYCRR 231-2.2

40 CFR 52.21

Item 63.2:

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

Item 63.3:

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

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Item 63.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 63.5:

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

Item 63.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

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

Item 63.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1) NOx emissions from this emission unit are limited to 160.0 tons/yr, on a 52-week rolling basis.
- 2) This cap combined with the 5.0 ton/yr NOx cap on emission unit U-00022 and with the 125.5 ton/yr of NOx ERCs generated by curtailment (145 ton per year cap) of the existing boilers in emission unit U-00004 (boilers 10 and 11) (Permit ID 9-0608-00053/00025, issued in 1999) results in a net emission increase of NOx for the gas turbine project which is less than the 40 ton/yr significant net emission increase threshold for NOx. Therefore, the gas turbine project will not be subject to the control, emissions offset, or modeling requirements of 6 NYCRR subpart 231-2 (non-attainment) or 40 CFR 52.21 (PSD review).
- 3) Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week NOx emissions as measured by the CEMS. Emission calculations will be performed on the same basis as required by 40 CFR 75.
- 4) As part of the periodic compliance report, the responsible official shall provide a certification to the

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department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 160.0 tons.

Manufacturer Name/Model Number: Horiba GH-7420CL
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 160.0 tons
Reference Test Method: 40 CFR Part 75
Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL ROLLED WEEKLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 64: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 64.1:

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

40 CFR 52.21

Item 64.2:

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

Item 64.3:

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

Item 64.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 64.5:

The emission of pollutants that exceed the applicability thresholds for an applicable

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requirement, for which the facility has obtained an emissions cap, constitutes a violation of Part 201 and of the Act.

Item 64.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

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

Item 64.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) PM-10 emissions from this emission unit are limited to 14.0 tons/yr, on a 52-week rolling basis.

2) This cap combined with the 0.8 ton PM-10/yr cap on emission unit U-00022 (auxiliary boiler) resulted in a net emission increase of PM-10 for the gas turbine project that was less than the 15 ton/yr significant net emission increase threshold for PM-10. Therefore, the gas turbine project is not subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.

3) Compliance with the cap limit shall be demonstrated based on emission factors developed from once per permit term stack testing at both stacks. Record keeping needs will be based on the outcome of the stack test. The following two options may result from testing:

a) If the maximum hourly emission rate of PM-10 from EU U-00020 (gas turbine) is demonstrated not to exceed 3.2 lb/hr, the maximum PTE for this emission unit will be 14 ton/yr. Following acceptance of the stack test results by the department and with the concurrence of the department, under these circumstances no ongoing record keeping will be required to demonstrate compliance with the PM-10 cap.

b) If the maximum hourly emission rate exceeds 3.2 lb/hr, following acceptance of the stack test results by the department and with the concurrence of the department regarding the emission factor(s) to be used, compliance shall be demonstrated by maintaining records of the amount of fuel fired and corresponding emissions based on the accepted emission factors. Emission calculations shall be

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conducted weekly. Total emissions for the previous 52-week period shall be computed weekly and both the weekly and 52-week totals shall be logged in a manner acceptable to the department.

c) Background - The initial testing on the simple cycle stack (EP 20) was conducted on 3/14/02 and reported a 5.03 lb PM-10/hour emission rate. The initial testing on the combined cycle stack (EP 21) was conducted on 5/7/02 and reported a 3.54 lb PM-10/hour emission rate. The PTE using these emission rates was greater than 14.0 tpy, so the permittee tracked operation and PM-10 emissions. Work was performed on the stacks, and then the simple cycle stack (EP 20) was retested on 7/23/04 and reported a 3.1 lb PM-10/hour emission rate. The combined cycle stack (EP 21) was retested on 7/21/04 and reported a 1.8 lb PM-10/hour emission rate. The PTE using the retested emission rates is below 14.0 tpy so the permittee was able to suspend ongoing record keeping to show compliance with the cap.

4) As part of the semi-annual compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. If on going record keeping is required above, the certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 14.0 tons. If on going record keeping is not required above, the certification shall explain why.

Parameter Monitored: PM-10

Upper Permit Limit: 14.0 tons per year

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

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 65: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 65.1:

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

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40 CFR 52.21

Item 65.2:

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

Item 65.3:

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

Item 65.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 65.5:

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

Item 65.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

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

Item 65.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

1) Once a permit term an emission test must be conducted to determine the current PM-10 emission factors for this source, so that uncontrolled potential to emit (PTE) of PM-10 can be determined and the appropriate record keeping requirements may be ascertained for the PM-10 emission cap (see record keeping/maintenance procedures monitoring compliance certification activity cited under 6NYCRR Part 201-7, for emission unit U-00020, regulated contaminant PM-10).

2) By way of background, the PM-10 emissions from this

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source are capped at 14.0 tons/52-week period so the gas turbine project would not be subject to the control or modeling requirements of 40 CFR 52 (Prevention of Significant Deterioration (PSD) review) when it was constructed in year 2000.

3) A stack test protocol must be submitted not less than 30 days prior to the emission test.

4) A test report must be submitted to the department within 60 days following completion of testing.

5) Semi-annually report when the last emission test(s) were completed and if the results demonstrated compliance, or when the next emission test will be conducted.

Parameter Monitored: PM-10

Upper Permit Limit: 14.0 tons per year

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

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 66: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 66.1:

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

40 CFR 52.21

Item 66.2:

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

Item 66.3:

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

Item 66.4:

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

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period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 66.5:

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

Item 66.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Item 66.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

- 1) CO emissions from this emission unit are limited to 90.0 ton/yr, on a 52-week rolling basis.
- 2) This cap combined with the 8.7 ton/yr cap on emission unit U-00022 (auxiliary boiler) results in a net emission increase of CO for the gas turbine project that is less than the 100 ton/yr significant net emission increase threshold for CO. Therefore the project will not be subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.
- 3) To meet the record keeping and monitoring requirements of this condition the owner or operator shall install, certify, calibrate, operate, and maintain, in accordance with all the requirements of 40 CFR 60 Appendices B and F a CO CEMS (consisting of a CO pollutant concentration monitor and an O₂ or CO₂ diluent gas monitor) with an automated data acquisition and handling system for measuring and recording CO concentration (in ppm), O₂ or CO₂ concentration (in percent O₂ or CO₂) and CO emission rate discharged to the atmosphere, on both the simple cycle and combined cycle stacks.
- 4) Compliance with this limit shall be demonstrated by maintaining records of weekly and rolling 52-week CO emissions as measured by the CEMS. CO emissions in lbs/hr shall be determined by multiplying together the CO emission rate in lbs/mmBtu and the hourly heat input rate in mmBtu/hr.

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(i) Determination of the CO emission rate in lbs/hr shall be performed in a manner acceptable to the department,

(ii) Determination of the heat input rate shall be identical to that used for the NOx emission rate calculations under 40 CFR 75.

5) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52-week emissions summed for each week in the reporting period, and comparing them to the 90.0 ton per year emission limit.

Manufacturer Name/Model Number: Horiba GH-7420CL
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 90.0 tons per year
Reference Test Method: 40 CFR Part 60 Appendices B, PS 4
Monitoring Frequency: CONTINUOUS
Averaging Method: ANNUAL TOTAL ROLLED WEEKLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 67: Documents the Use of ERCs for EU U-00020, the Gas Turbine Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 231-2.4 (a) (1)

Item 67.1:

This Condition applies to Emission Unit: U-00020

Item 67.2:

- 1) This condition documents the applicant's use of emission reduction credits for emission unit U-00020, the gas turbine. As required, the applicant will maintain records of NOx emissions from EU U-00004 to verify that the curtailment which generated the ERCs is being maintained.
- 2) Gas Turbine project description: the existing electric power plant (4 coal boilers) added a GE LM6000 gas turbine generator system, with a nominal capacity of 43 MW. The gas turbine exhausts directly to an exhaust stack (simple cycle) or to a heat recovery steam generator (HRSG)(combined cycle). The HRSG has a duct burner providing supplemental heat, up to 144 mmBtu/hr. NOx emissions from the turbine are controlled by water injection.
- 3) NOx actual emissions from EU U-00020 are limited to 160 ton/yr. NOx actual emissions from EU U-00022, which are also part of the gas turbine project, are limited to 5 ton/yr. The NOx ERCs (125.5 tons) used for the gas turbine project as part of a net emission increase determination of non-applicability of 6 NYCRR subpart 231-2 were

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created by accepting a NOx emission limit of 145 ton/yr at EU U-00004 (DEC application Id No. 9-0608-00053/00025).

4) Contaminant Emission Increase Data:

CAS No. of the Nonattainment Contaminant for which ERCs are being used as Offsets:

0NY210-00-0.

Contaminant Name: Oxides of Nitrogen.

Project Emission Potential (PEP): 320,000 lbs/yr from EU-00020.

5) Statement of Compliance: As required by 6 NYCRR part 231-2.4(a)(2)(i), the applicant has checked the box under this section of the application indicating that the compliance statement has been read and that the applicant is in agreement with the provisions regarding compliance. The statement of compliance is stated in the application as follows: "All facilities under the ownership of this "ownership/firm" are operating in compliance with all applicable requirements and state regulations including any compliance certification requirements under section 114(a)(3) of the Clean Air Act Amendments of 1990, or are meeting the schedule of a consent order."

6) Source of Emission Reduction Credit - facility:

Name: Samuel A. Carlson Generating Station

Address: 136 Steele Street, City of Jamestown, NY 14701-6438

Application Id: 9-0608-00053/00025

Emission Unit Number: U-00004

CAS No. of the Nonattainment Contaminant for which ERCs are being Created:

0NY210-00-0

Contaminant Name: Oxides of Nitrogen

ERC Netting: 251,000 lbs/yr

Condition 68: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 60.332(a)(1), NSPS Subpart GG

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

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

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NSPS NOx Limit for LM6000 combustion turbine (emission Unit - U-00020)

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1) For both combined cycle and simple cycle operations of the gas turbine, the NO_x emission standard is 115 part per million by volume at 15% oxygen on a dry basis with a 4-hour rolling average. [40 CFR 60.332(a)(1), 60.334(j)(1)(iii)(A)]

2) The above limit was calculated using the equation $[0.0075(14.4/Y)+F]$ from 40 CFR 60.332(a)(1), where Y is the manufactures rated heat rate at manufactures rated load (full load) - 9.4 kilojoules per watt-hr, as provided by the permittee. No allowance for the nitrogen content of the natural gas was taken by the permittee, therefore the fuel bound nitrogen, F, is considered to be zero (0).

3.) As an alternative to monitoring water injection to fuel ratios, the permittee choose to install, certify, maintain, operate, and quality-assure a continuous emission monitoring system (CEMS) consisting of NO_x and O₂ monitors. [40 CFR 60.334(b)]

a.) The CEMS must be installed and certified according to Performance Specifications 2 and 3 (for diluent) of 40 CFR part 60, appendix B. [40 CFR 60.334(b)(1)]

b.) The CEMS must operate as specified in 40 CFR 60.13(e)(2). [40 CFR 60.334(b)(2)]

c.) The permittee has installed a NO_x CEMS to meet the requirements of 40 CFR Part 75 (Acid Rain Program). The Part 75 CEMS may be used to meet the CEMS requirements of 40 CFR Part 60 subpart GG, except that the missing data substitution methodology provided for in 40 CFR part 75, subpart D, is not required for purposes of identifying excess emissions. Instead, periods of missing CEMS data are to be reported as monitor downtime in the excess emissions and monitoring performance report required in §60.7(c). [40 CFR 60.334(b)(3)(iii)]

4. For purposes of identifying excess emissions, CEMS data must be reduced to hourly averages as specified in §60.13(h). For each unit operating hour in which a valid hourly average is obtained for both NO_x and diluent, the data acquisition and handling system must calculate and record the hourly NO_x emissions in the units of the applicable NO_x emission standard under §60.332(a), i.e., percent NO_x by volume, dry basis, corrected to 15 percent O₂ and International Organization for Standardization (ISO) standard conditions (if required as given in §60.335(b)(1)). For any hour in which the hourly average O₂ concentration exceeds 19.0 percent O₂, a diluent cap value of 19.0 percent O₂ may be used in the emission calculations. [40 CFR 60.334(b)(3), 60.334(b)(3)(i)]

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5. Excess emissions during all times of operation, including startup, shutdown, and malfunction, along with monitor downtime shall be reported semiannually in accordance with 40 CFR 60.7(c). Each report shall include the ambient conditions (temperature, pressure, and humidity) at the time of the excess emission period and (if the owner or operator has claimed an emission allowance for fuel bound nitrogen) the nitrogen content of the fuel during the period of excess emissions. The permittee does not have to report ambient conditions if the permittee opt to use the worst case ISO correction factor as specified in §60.334(b)(3)(ii), or if the permittee is not using the ISO correction equation under the provisions of §60.335(b)(1). [40 CFR 60.334(j)(5), 60.334(j)(1)(iii)(C)]

Manufacturer Name/Model Number: Horiba GH-7420CL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 115 parts per million by volume
(dry, corrected to 15% O₂)

Reference Test Method: 40 CFR Part 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 4-HOUR ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 69: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.332(f), NSPS Subpart GG

Item 69.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Item 69.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- 1) Stationary gas turbines using water or steam injection for control of NO_x emissions are exempt from the NO_x emission limit in section 60.332(a) when ice fog is deemed a traffic hazard by the owner or operator of the turbine.
- 2) A quarterly written report that includes a record of each period during which this exemption was invoked shall be submitted to the Administrator [60.334(c)(3)],

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reporting the following:

- a) the ambient conditions existing during the period when the exemption was invoked,
- b) the date and time the air pollution control system was deactivated, and
- c) the date and time the air pollution control system was reactivated.

3) If this exemption was not invoked during the quarter state so in the report.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 4/30/2022.
 Subsequent reports are due every 3 calendar month(s).

Condition 70: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 97.406, Subpart AAAAA

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

Emission Unit: U-00020

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

Item 70.2:
 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 40 CFR 97.413 through 97.418. 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 NO_x Annual source (facility) and each TR NO_x Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of 40 CFR 97.430 through 97.435 and Subpart H of 40 CFR Part 75. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording,

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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 Department 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 NO_x Annual allowances and to determine compliance with the TR NO_x 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 NO_x Annual facility and each TR NO_x Annual Unit at the facility shall hold, in the facilities compliance account, TR NO_x Annual allowances available for deduction for such control period under 40 CFR 97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 71: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 40CFR 97.606, Subpart CCCCC

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 71.2:

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

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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 CCCC and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 72: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.44b(l)(1), NSPS Subpart Db

Item 72.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Process: DB1

Regulated Contaminant(s):

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Item 72.2:

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Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NSPS subpart Da NO_x limit for Duct Burner
Determine compliance on a 30-day rolling average,
calculated each steam unit operating day as the average of
all hourly NO_x emissions for the preceding 30 steam
generating days, by using continuous emission monitoring
systems. The sampling site shall be located at the outlet
from the steam generating unit. The NO_x emissions rate at
the outlet from the steam generating unit shall constitute
the NO_x emissions rate from the duct burner of the
combined cycle system. [40 CFR 60.46b(f)(2)]

Manufacturer Name/Model Number: Horiba GH-7420CL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.20 pounds per million Btus

Reference Test Method: 40CFR60 Appendix B, PS 2

Monitoring Frequency: CONTINUOUS

Averaging Method: AVERAGING METHOD - SEE MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 73: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:40CFR 60.49b(d), NSPS Subpart Db

Item 73.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Process: DB1

Item 73.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator shall record and maintain records
of the amounts of each fuel combusted during each day and
calculate the annual capacity factor individually for
coal, distillate oil, residual oil, natural gas, wood, and
municipal-type solid waste for each calendar quarter. The
annual capacity factor is determined on a 12-month rolling
average basis with a new annual capacity factor calculated
at the end of each calendar month.

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Monitoring Frequency: DAILY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 74: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 74.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020
Process: GT1

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

Item 74.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT limit for the LM6000 Combustion Gas Turbine in COMBINED CYCLE mode) during the Ozone Season

1) During the ozone season, May 1 through September 30 each year, the NOx limit when operating in COMBINED CYCLE mode (when both the combustion turbine and duct burner are operating) is 35 ppm, corrected to 15 percent oxygen (process GT1, emission point 00021).

2) The owner/operator of a combined cycle combustion turbine with a maximum heat input rate greater than 250 mmBtu/hr must utilize CEMS to demonstrate compliance with the NOx limit, per 6NYCRR 227-2.6(a)(4).

3) The owner/operator has opted to follow the CEMS procedures of 40CFR part 75, per 6NYCRR 227-2.6(b). All of the requirements of part 75 apply. The owner/operator must demonstrate compliance with the emission limit above by calculating and reporting NOx emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The emission unit must also comply with the less stringent NOx limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba GH-7420CL

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 35 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: 40 CFR 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC
AVERAGE)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2022.

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

Condition 75: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 75.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Process: GT1

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 RACT limit for LM6000 Combustion Gas Turbine in
COMBINED CYCLE mode during the Non-Ozone Season

1) During the non-ozone season, October 1 through April 30, the NO_x limit when operating in COMBINED CYCLE mode (when both the combustion turbine and duct burner are operating) is 42 ppm, corrected to 15 percent oxygen (process GT1, emission point 00021).

2) The owner/operator of a combined cycle combustion turbine with a maximum heat input rate greater than 250 mmBtu/hr must utilize CEMS to demonstrate compliance with the NO_x limit, per under 6NYCRR 227-2.6(a)(4).

3) The owner/operator has opted to follow the CEMS procedures of 40CFR part 75, per 6NYCRR 227-2.6(b). All of the requirements of part 75 apply. The owner/operator must demonstrate compliance with the emission limit above by calculating and reporting NO_x emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

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4) The emission unit must also comply with the less stringent NO_x limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

Manufacturer Name/Model Number: Horiba GH-7420CL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 42 parts per million by volume (dry,
corrected to 15% O₂)

Reference Test Method: 40 CFR 75

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC
AVERAGE)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2022.

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

Condition 76: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 76.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00020

Process: GT2

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 RACT limit for the LM6000 Combustion Gas Turbine
operating in SIMPLE CYCLE mode.

1) The NO_x limit when operating in SIMPLE CYCLE mode (when only the combustion turbine is operating) is 50 ppm, corrected to 15 percent oxygen (process GT2, emission point 00020 or 00021).

2) The owner/operator of a combined cycle combustion turbine with a maximum heat input rate greater than 250 mmBtu/hr must utilize CEMS to demonstrate compliance with the NO_x limit, per under 6NYCRR 227-2.6(a)(4). Because emissions during simple cycle operating mode can be vented to both emission point 00020 and emission point 00021, the higher of the NO_x concentrations measured in emission

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point 00020 or 00021 will be used to determine compliance with the emission limit.

3) The owner/operator has opted to follow the CEMS procedures of 40CFR part 75, per 6NYCRR 227-2.6(b). All of the requirements of part 75 apply. The the owner/operator must demonstrate compliance with the emission limit above by calculating and reporting NOx emission rates as 24-hour daily heat input weighted averages as described in 6NYCRR 227-2.6(b)(3)(i)(b).

4) The facility must also comply with the less stringent NOx limit of 40CFR60 subpart GG as determined by methods specified in subpart GG.

5) Compliance with this permit condition will demonstrate compliance with the 100 ppm NOx limit for simple cycle gas turbines firing natural gas during the ozone season (May 1 through Sept. 30, annually) in 6 NYCRR Part 227-3.4(a)(1).

Manufacturer Name/Model Number: Horiba GH-7420CL

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 50 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: 40CFR75

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY BLOCK (ARITHMETIC AVERAGE)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2022.

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

Condition 78: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 78.1:

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

40 CFR 52.21

Item 78.2:

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

Item 78.3:

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

Item 78.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 78.5:

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

Item 78.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00022

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

Item 78.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) PM-10 emissions from this emission unit are limited to 0.8 ton/yr, on a 52-week rolling basis.

2) This cap combined with the 14.0 ton/yr cap on emission unit U-00020 (gas turbine) results in a net emission increase of PM-10 for the gas turbine project that is less than the 15 ton/yr significant net emission increase threshold for PM-10. Therefore, the gas turbine project will not be subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.

3) Compliance with this limit shall be demonstrated by maintaining records of the amount of fuel fired and calculating the actual emissions. To calculate the actual emissions multiply the PM-10 emission factor provided by the boiler manufacture, 0.01 lb PM-10 per mmBtu, by the amount of fuel fired in mmBtu's.

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4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 0.8 tons.

Parameter Monitored: PM-10

Upper Permit Limit: 0.8 tons per year

Monitoring Frequency: WEEKLY

Averaging Method: ANNUAL TOTAL ROLLED WEEKLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 79: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 79.1:

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

6 NYCRR 231-2.2
40 CFR 52.21

Item 79.2:

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

Item 79.3:

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

Item 79.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 79.5:

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

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

Item 79.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00022

Regulated Contaminant(s):

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

Item 79.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

1) NO_x emissions from this emission unit are limited to 5.0 ton/yr, on a 52-week rolling basis.

2) This cap combined with the 160.0 ton/yr cap on emission unit U-00020 (gas turbine) and with the 125.5 ton/yr of NO_x ERCs generated by curtailment (145 ton per year cap) of the existing boilers in emission unit U-00004 (boilers 10 and 11) (DEC Permit ID 9-0608-00053/00025, issued in 1999) results in a net emission increase of NO_x for the turbine project that is less than the 40 ton/yr significant net emission increase threshold for NO_x. Therefore, the gas turbine project will not be subject to the control, emissions offset, or modeling requirements of 6 NYCRR subpart 231-2 (Non-Attainment) or 40 CFR 52 (PSD Review).

3) Compliance with this limit shall be demonstrated by maintaining records of the amount of fuel fired and calculating the actual emissions. To calculate the actual emissions multiply the NO_x emission factor provided by the boiler manufacture, 0.024 lb NO_x per MMBtu, by the amount of fuel fired in mmBtu's.

4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 5.0 tons.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 5.0 tons

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Monitoring Frequency: WEEKLY
Averaging Method: ANNUAL TOTAL ROLLED WEEKLY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2022.
Subsequent reports are due every 6 calendar month(s).

Condition 80: Capping Monitoring Condition
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 201-7.1

Item 80.1:

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

40 CFR 52.21

Item 80.2:

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

Item 80.3:

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

Item 80.4:

On an annual basis, unless otherwise specified below, beginning one year after the granting of an emissions cap, the responsible official shall provide a certification to the Department that the facility has operated all emission units within the limits imposed by the emission cap. This certification shall include a brief summary of the emissions subject to the cap for that time period and a comparison to the threshold levels that would require compliance with an applicable requirement.

Item 80.5:

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

Item 80.6:

The Compliance Certification activity will be performed for:

Emission Unit: U-00022

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Item 80.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

- 1) CO emissions from this emission unit are limited to 8.7 ton/yr, on a 52-week rolling basis.

- 2) This cap combined with the 90.0 ton/yr cap on emission unit U-00020 (gas turbine) results in a net emission increase of CO for the gas turbine project that is less than the 100 ton/yr significant net emission increase threshold for CO. Therefore the project will not be subject to the control or modeling requirements of 40 CFR 52 (PSD review) for this contaminant.

- 3) Compliance with this limit shall be demonstrated by maintaining records of the amount of fuel fired and calculating the actual emissions. To calculate the actual emissions multiply the CO emission factor provided by the boiler manufacture, 0.150 lb CO per mmBtu, by the amount of fuel fired in mmBtu's.

- 4) As part of the periodic compliance report, the responsible official shall provide a certification to the department that the facility has operated the emission unit within the limits imposed by the emission cap. This certification shall include the previous 52 week emissions summarized weekly for each week of the reporting period compared to the emission limit of 8.7 tons.

Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 8.7 tons per year
 Monitoring Frequency: WEEKLY
 Averaging Method: ANNUAL TOTAL ROLLED WEEKLY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2022.
 Subsequent reports are due every 6 calendar month(s).

Condition 81: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement:6 NYCRR 227-2.4 (d)

Item 81.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00022

Emission Point: 00022

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Item 81.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx RACT Requirements for 23.3 mmBtu/hr natural gas package boiler.

- 1) Any owner or operator of a small boiler shall perform a tune-up, as defined in section 227-2.2(b)(13) annually.
- 2) The owner or operator shall maintain in a permanently bound log book, or other format approved in writing by the department, the following information:
 - a) the date on which the combustion process was last adjusted,
 - b) the name title and affiliation of the person who made the adjustments, and
 - c) any other information which the department may require.
- 3) As part of the semiannual compliance report, the responsible official shall report the date of the last boiler tune-up.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 82: Compliance Certification
Effective between the dates of 01/21/2022 and 01/20/2027

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

Item 82.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00027 Emission Point: 00027

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

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NOx RACT limit for 73.5 mmBtu/hr natural gas-fired package boiler

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

- 1) The NOx emissions from the package boiler are limited to 0.05 pounds per million Btu heat input.
- 2) The initial emission compliance test was conducted on March 2, 2011 and averaged 0.031 lb NOx/MMBtu.
- 3) Once a permit term a NOx emission test must be completed to evaluate compliance with the above emission limit. A protocol is due at least 30 days before the scheduled test. The test report is due within 60 days of completing the test.
- 4) The Annual Compliance Certification Report shall report the compliance status of this condition.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.05 pounds per million Btus

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

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 83: Compliance Certification

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)

Item 83.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00028

Emission Point: 00028

Regulated Contaminant(s):

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

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

NOx RACT Requirements for 3.2 mmBtu/hr natural gas package boiler for the DA (deaeration) tank.

- 1) Any owner or operator of a small boiler shall perform a tune-up, as defined in section 227-2.2(b)(13) annually.
- 2) The owner or operator shall maintain in a permanently bound log book, or other format approved in writing by the department, the following information:
 - a) the date on which the combustion process was last adjusted,
 - b) the name title and affiliation of the person who made the adjustments, and

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c) any other information which the department may require.

3) As part of the semiannual compliance report, the responsible official shall report the date of the last boiler tune-up.

Monitoring Frequency: ANNUALLY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

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STATE ONLY ENFORCEABLE CONDITIONS****** Facility Level ********NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS**

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

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

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

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

STATE ONLY APPLICABLE REQUIREMENTS

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

Condition 84: Contaminant List
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: ECL 19-0301

Item 84.1:

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: 0NY075-00-0
Name: PARTICULATES

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

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

Condition 85: Malfunctions and Start-up/Shutdown Activities

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Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement:6 NYCRR 201-1.4**Item 85.1:**

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

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

(c) In the event that air contaminant emissions exceed any applicable emission standard due to a malfunction, the facility owner or operator shall notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. In addition, the facility owner or operator shall compile and maintain a record of all malfunctions. Such records shall be maintained at the facility for a period of at least five years and must be made available to the department upon request. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, the air contaminants emitted, and the resulting emission rates and/or opacity.

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

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

Condition 86: CLCPA Applicability

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement:6 NYCRR 201-6.5 (a)**Item 86.1:**

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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 87: Air pollution prohibited
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement:6 NYCRR 211.1

Item 87.1:

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 88: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement:6 NYCRR 242-1.5

Item 88.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 88.2:

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.

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2022.

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

Condition 89: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement:6 NYCRR Subpart 242-4

Item 89.1:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 89.2:

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.

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(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 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

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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 90: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: 6 NYCRR 242-8.5

Item 90.1:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 90.2:

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).

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Facility DEC ID: 9060800053

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

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

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

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2022.

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

Condition 91: Compliance Demonstration

Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: 6 NYCRR 251.3 (b)

Permit ID: 9-0608-00053/00019

Facility DEC ID: 9060800053

Item 91.1:

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

Emission Unit: U-00003 Emission Point: 00003

Emission Unit: U-00004 Emission Point: 00004

Regulated Contaminant(s):
CAS No: 000124-38-9 CARBON DIOXIDE**Item 91.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

CO2 Limit for Boiler #9 and Boiler #10

1) The CO2 emission rate shall not exceed 1,800 pounds per MW hour gross electrical output (output-based limit) or 180 pounds per million Btu of input (input-based limit) for each fossil fuel combusted. [per 251.3(b)] The facility chose to meet the 180 pounds per million Btu of input limit. The emission limit is measured on an annual basis, calculated by dividing the annual total of CO2 emissions for the calendar year by either the annual total (gross) MW generated (output-based limit) or the annual Btu input (input-based limit) over the same calendar year for each fuel combusted. [per 251.3] The first compliance determination will be made for calendar year 2021.

2) CO2 emissions will be calculated following the Low Mass Emitter (LME) requirements in 40 CFR 75.19(c). LME is an alternative to using Continuous Emission Monitoring System to measure CO2 in 40 CFR 75.13(d)(3). CO2 emission are determined following 40 CFR 75.19(c)(4)(iii), which multiplies a Part 75 fuel-based CO2 emission factor by the maximum hourly heat input. [per 251.5(b)(1)]

3) The annual CO2 emissions and supporting information shall be recorded and kept for a minimum of five years. Follow the recordkeeping requirements of 40 CFR Part 75. [per 251.6(h)]

4) 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. [per 251.3] The Emission Monitoring data feedback reports received from the EPA

Permit ID: 9-0608-00053/00019

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Emissions Collection and Monitoring Plan System (ECMPS) can be submitted along with the annual lb CO₂/MMBtu heat input value to demonstrate compliance.

5) 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.

Parameter Monitored: HEAT INPUT
 Upper Permit Limit: 180 pounds per million Btus
 Monitoring Frequency: HOURLY
 Averaging Method: CALENDAR YEAR AVERAGE
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 92: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: 6 NYCRR 251.5

Item 92.1:

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

Emission Unit: U-00003 Emission Point: 00003

Emission Unit: U-00004 Emission Point: 00004

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

Item 92.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

CO₂ Monitoring for Boiler #9 and Boiler #10

1) CO₂ emissions are determined hourly by following the Low Mass Emitter (LME) requirements in 40 CFR 75.19(c). LME is an alternative to using Continuous Emission Monitoring System to measure CO₂ in 40 CFR 75.13(d)(3) [per 251.5(b)(1)]. CO₂ emissions are determined following Equation LM-11 in 40 CFR 75.19(c)(4)(iii) and heat input.

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2) The hours of operation, type of fuel burned each hour, hourly heat input and quarterly CO2 emissions will be recorded and kept for a minimum of five years. Follow the recordkeeping requirements of 40 CFR Part 75. [per 251.6(h)]

3) 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 for each calendar quarter. The facility chose to meet the lb/MMBtu limit. 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. Reports are due within 30 days following the end of the calendar quarter. [per 251.6(e)]

4) 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.

Monitoring Frequency: HOURLY
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 4/30/2022.
 Subsequent reports are due every 3 calendar month(s).

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

Condition 93: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: 6 NYCRR 251.3 (b)

Item 93.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003 Emission Point: 00003

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

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Item 93.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Boiler #9 Annual CO₂ Performance Limit (6 NYCRR Part 251)

1) The CO₂ emission rate shall not exceed 1800 pounds per MW hour gross electrical output (output-based limit) or 180 pounds per million Btu of input (input-based limit) for each fossil fuel combusted. [251.3(b)] The emission limit is measured on an annual basis, calculated by dividing the annual total of CO₂ emissions for the calendar year by either the annual total (gross) MW generated (output-based limit) or the annual Btu input (input-based limit) over the same calendar year for each fuel combusted. [251.3] The first compliance determination will be made for calendar year 2021.

2) CO₂ emissions will be calculated following the Low Mass Emitter (LME) requirements in 40 CFR 75.19(c). LME is an alternative to using Continuous Emission Monitoring System to measure CO₂ in 40 CFR 75.13(d)(3). CO₂ emissions are determined following 40 CFR 75.19(c)(4)(iii), which multiplies a Part 75 fuel-based CO₂ emission factor by the maximum hourly heat input. [251.5(b)(1)]

3) The annual CO₂ emissions and supporting information shall be recorded and kept for a minimum of five years. Follow the recordkeeping requirements of 40 CFR Part 75. [251.6(h)]

4) 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]

5) 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.

Parameter Monitored: CARBON DIOXIDE

Upper Permit Limit: 180 pounds per million Btus

Monitoring Frequency: CONTINUOUS

Averaging Method: CALENDAR YEAR AVERAGE

Reporting Requirements: ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
 The initial report is due 1/30/2023.
 Subsequent reports are due every 12 calendar month(s).

Condition 94: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: 6 NYCRR 251.5

Item 94.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00003 Emission Point: 00003

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

Item 94.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Boiler #9 CO2 Performance Standard (6 NYCRR Part 251)

1) CO2 emissions are determined hourly by following the Low Mass Emitter (LME) requirements in 40 CFR 75.19(c). LME is an alternative to using Continuous Emission Monitoring System to measure CO2 in 40 CFR 75.13(d)(3) [251.5(b)(1)]. CO2 emission are determined following 40 CFR 75.19(c)(4)(iii):

(A) The hourly CO2 mass emissions (tons) shall be determined using Equation LM-11 and the appropriate fuel-based CO2 emission factor from Table LM-3 of 40 CFR 75.19 for the fuel being combusted in that hour. If more than one fuel is combusted in the hour, use the highest emission factor for all of the fuels combusted in the hour. If records are missing as to which fuel was combusted in the hour, use the highest emission factor for all of the fuels capable of being combusted in the unit.

$$WCO_2 = EFCO_2 \times HI_{hr} \quad (\text{Eq. LM-11})$$

Where:

WCO2 = Hourly CO2 mass emissions (tons).

EFCO2 = Either the fuel-based CO2 emission factor from Table LM-3 of this section or the fuel-and-unit-specific

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CO₂ emission rate from paragraph 75.19(c)(1)(iii)
(tons/mmBtu).

HI_{hr} = Either the maximum rated hourly heat input from
paragraph 75.19(c)(3)(i)(A) of this section or the hourly
heat input as determined under paragraph 75.19(c)(3)(ii)
(mmBtu).

(B) The quarterly CO₂ mass emissions (tons) shall be
the sum of all of the hourly CO₂ mass emissions in the
quarter.

2) The hours of operation, type of fuel burned each hour,
hourly heat input (and which way the heat input was
determined, see above), hourly and quarterly CO₂ emissions
will be recorded and kept for a minimum of five years.
Follow the recordkeeping requirements of 40 CFR Part 75.
[251.6(h)]

3) 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/WMh(gross) or 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)]

4) 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.

Monitoring Frequency: HOURLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2022.
Subsequent reports are due every 3 calendar month(s).

Condition 95: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

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Applicable State Requirement: 6 NYCRR 251.3 (b)**Item 95.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 95.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

GT CO2 Emission Limit

1) The CO₂ emission rate shall not exceed 1,800 pounds per MW hour gross electrical output (output-based limit) or 180 pounds per million Btu of input (input-based limit) for each fossil fuel combusted. [per 251.3(b)] The facility chose to meet the 180 pounds per million Btu of input limit. The emission limit is measured on an annual basis, calculated by dividing the annual total of CO₂ emissions for the calendar year by either the annual total (gross) MW generated (output-based limit) or the annual Btu input (input-based limit) over the same calendar year for each fuel combusted. [per 251.3] The first compliance determination will be made for calendar year 2021.

2) CO₂ emissions are calculated hourly by following Section 2.3 of Appendix G of 40 CFR 75 using hourly heat input. This is an optional method to determine CO₂ in 40 CFR 75.13(b) [per 251.5(b)(1)].

3) The annual CO₂ emissions and supporting information shall be recorded and kept for a minimum of five years. Follow the recordkeeping requirements of 40 CFR Part 75. [251.6(h)]

4) 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. [per 251.3] The Emission Monitoring data feedback reports received from the EPA Emissions Collection and Monitoring Plan System (ECMPS) can be submitted along with the annual lb CO₂/MMBtu heat input value to demonstrate compliance.

4) A compliance certification shall be submitted in

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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.

Parameter Monitored: HEAT INPUT
Upper Permit Limit: 180 pounds per million Btus
Monitoring Frequency: HOURLY
Averaging Method: CALENDAR YEAR AVERAGE
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2023.
Subsequent reports are due every 12 calendar month(s).

Condition 96: Compliance Demonstration
Effective between the dates of 01/21/2022 and 01/20/2027

Applicable State Requirement: 6 NYCRR 251.5

Item 96.1:

The Compliance Demonstration activity will be performed for:

Emission Unit: U-00020

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

Item 96.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Gas Turbine CO2 Monitoring

1. CO2 emissions are calculated hourly by following Section 2.3 of Appendix G of 40 CFR 75 using hourly heat input. This is an optional method to determine CO2 in 40 CFR 75.13(b) [per 251.5(b)(1)].
- 2) The hours of operation, type of fuel burned each hour, hourly heat input, and quarterly CO2 emissions will be recorded and kept for a minimum of five years. Follow the recordkeeping requirements of 40 CFR Part 75. [per 251.6(h)]
- 3) The owner or operator shall report the CO2 mass emissions data and heat input data in a format appropriate for comparison to the emission limit for each calendar quarter. The facility chose to meet the lb/MMBtu heat input limit. The reports to EPA shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR

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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. Reports are due within 30 days following the end of the calendar quarter. [per 251.6(e)]

4) 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.

Monitoring Frequency: CONTINUOUS
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2022.
Subsequent reports are due every 3 calendar month(s).

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