

Facility DEC ID: 9563200010

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

**IDENTIFICATION INFORMATION**

Permit Type: Air Title V Facility  
Permit ID: 9-5632-00010/00016  
Effective Date: 06/24/2020 Expiration Date: 06/23/2025

Permit Issued To: INDECK ENERGY SERVICES OF SILVER SPRINGS  
600 N BUFFALO GROVE RD STE 300  
BUFFALO GROVE, IL 60089-2432

Contact: JAMES SCHNEIDER  
INDECK ENERGY SERVICES  
600 NORTH BUFFALO GROVE RD # 300  
BUFFALO GROVE, IL 60089-2432  
(847) 520-3212

Facility: INDECK-SILVER SPRINGS ENERGY CENTER  
1 INDECK DR  
SILVER SPRINGS, NY 14550

Contact: DON HITTNER  
1 INDECK DR  
SILVER SPRINGS, NY 14550-9780

## Description:

Indeck Silver Springs Title V Air Permit (Renewal 3, Modification 0)  
This is Indeck Silver Springs 3rd permit renewal. This renewal incorporates both a modification to allow the gas turbine to peak fire as well as the removal of the Auxiliary boiler and ammonia stripping tower from the permit. Peak fire operations will increase the fuel heat input rate for natural gas by up to 8% above the current full load (100%) heat input rate. This increase from 471.53 MMBtu/hr to 509.25 MMBtu/hr at 48 degrees is a net increase of 37.72 MMBtu/hr. Since the heat input rate varies with air temperature, the highest theoretically heat input possible (-10°F) shall be used for the maximum heat rating. The max heat rating for the gas turbine is 585 MMBtu/hr. However, conditions in the permit will evaluate the gas turbine at a 48 degree heat rate. Actual emissions will be determined by the temperature graphs.

The Indeck-Silver Springs Energy Center (Indeck) is a combined cycle electrical generation plant. Indeck is located at the outskirts of the rural Village of Silver Springs in Wyoming County. Indeck commenced operation in 1991 with a rated generating capacity of 54.44 megawatts of electricity (MW) at full load at 48 degrees. With the addition of peak firing it will be able to generate 57.42 MW of electricity at 48 degrees. The plant is an Electric Wholesaler Generator who sells electric power to the New York Independent System Operator, who administers the state's wholesale electricity markets.

This facility currently consists of one Emission Unit (EU), EU S-00001. Emission Unit S-00001 includes the General Electric Frame 6 gas turbine (GT) that produces 37.19

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MWe at 48 F inlet air temperature. Rated heat input for the GT is approximately 471 million Btu per hour (MMBtu/hr) at full load (100%), while firing natural gas. When the unit is Peak Firing (108%) the heat input rate is 509 MMBtu per hour. The GT is fired primarily with natural gas but uses number 2 fuel oil as a backup fuel. The GT can only peak fire while running on natural gas. Exhaust gases from the GT are reheated by a Coen duct burner (DB), then pass through the heat recovery steam generator (HRSG) before exiting out of the stack, emission point (EP) 00001. The HRSG generates steam by absorbing heat from the exhaust gases of the GT and DB. The HRSG provides steam for NOx control to the Gas Turbine and steam to fuel the Condensing Steam Turbine. The duct burner is rated at 84.4 MMBtu/hr heat input, and the steam turbine has a maximum rated output of 17.25 MW. An extractive Continuous Emissions Monitoring System (CEMS) consisting of California Analytical Instruments (CAI) Analyzers, with a Trace Environmental Systems, Inc. Data Acquisitions Handling System (DAHS) and reporting software are used to measure and record dry diluted concentrations of oxides of nitrogen (NOx), carbon monoxide (CO), and oxygen (O2) at the stack. Three process are part of EU 1, process 200 is the turbine combusting number 2 fuel oil with or without the duct burner firing natural gas, process 400 is the turbine firing natural gas with or without the duct burner firing natural gas, and process 800 is the gas turbine firing natural gas and fuel oil simultaneously, with or without the duct burner firing natural gas.

Emission Unit S-00002 was the auxiliary boiler which is being removed from the permit with this renewal. The fuel lines to the boiler have been disconnected and the unit is no longer operational. The boiler has not operated since 1994 and was only used to supply steam to Morton Salt. Morton Salt has purchased their own boiler so Indeck no longer needs the auxiliary boiler.

Emission Unit S-00003 was the ammonia stripping tower. Like the boiler the stripping tower was only used in conjuncture with Morton Salt when providing steam. The Ammonia Stripping tower was designed to remove ammonia from the return condensate. The stripping tower has since had its recirculation piping connections removed and reconfigured for use elsewhere in the facility. The ammonia stripping tower pipe connections are now blanked, and the tower is completely separated from any plant systems. Indeck does not plan to use the ammonia stripping at the facility again. Therefore, the stripping tower is being removed from the permit.

Exempt sources at this facility include unit space heaters, one fuel oil tank, an acid tank, a caustic tank, cleaning supplies storage room, and natural gas odorizing process. There are no internal combustion engines at this facility.

Compared to the previous permit, Renewal 2, the following regulations were removed: 6 NYCRR Part 243 CAIR NOx Ozone Season Trading Program, 6 NYCRR Part 244 CAIR NOx Annual Trading Program, and 6 NYCRR Part 245 CAIR SO2 Trading Program because they were repealed and replaced by current Cross-State Air Pollution Rule (CSAPR). New conditions have been added to the permit under 40 CFR Part 97; Subpart AAAAA—CSAPR NOx Annual Trading Program, Subpart EEEEE—CSAPR

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NOx Ozone Season Group 2 Trading Program, and Subpart CCCCC—CSAPR SO2 Group 1 Trading Program.

The project of Indeck Silver Springs adding peak fire operations to the gas turbine will cause the facility's actual emissions to increase. Therefore, Indeck Silver Springs was evaluated for New Source Review (NSR) applicability and reevaluated for Prevention of Significant Deterioration (PSD) due to the addition of the Peak Fire capability. In addition, Silver Springs is required to show compliance with the new NO<sub>2</sub> National Ambient Air Quality Standards (NAAQS). This evaluation was conducted using AERMOD while having the GT peak firing year-round. The results showed that the modeled impacts demonstrated compliance with PSD, and the 1-hour NO<sub>2</sub> NAAQS standard. The highest net increase in project emissions for the facility was from NO<sub>x</sub>, yielding a total of 31 tons year-round. This is below the NSR applicability thresholds of 40 tons per year.

This Title V permit includes conditions that originated in the Prevention of Significant Deterioration (PSD) permit issued when the facility was constructed in 1990-91. The conditions in the PSD permit resulted from reviews of 40 CFR 52-A.21(j), Prevention of Significant Deterioration of Air Quality, Best Available Control Technology (BACT); 40 CFR 60-A, General Provisions of New Source Performance Standards (NSPS); 40 CFR 60-Db, NSPS for Industrial-Commercial- Institutional Steam Generating Units (100 to 250 MMBtu/hr); 40 CFR 60-Dc, NSPS for Industrial-Commercial- Institutional Steam Generating Units (10 to 100 MMBtu/hr); and 40 CFR 60-GG, NSPS for Stationary Gas Turbines. When different rules have emission limits for the same contaminate or surrogates in the same units, the most stringent one was included in the permit. The most stringent emission limits were commonly found in the PSD permit and stated in two different units. The units are either part per million (ppm) or lb/MMBtu and the other was lb/hour. Both limits have been incorporated in this permit.

The PSD permit NO<sub>x</sub> limit is 54 parts per million (ppm) per hour when firing oil in the gas turbine. This is more stringent than the NO<sub>x</sub> limit in the NSPS for Combustion Gas Turbines, 40 CFR 60 subpart GG 60.332(a)(1), of 98 ppmv (dry, corrected to 15% O<sub>2</sub>) for a four-hour rolling average, and the NO<sub>x</sub> Reasonably Available Control Technology (RACT) limit from 6NYCRR Part 227-2.4(e)(2) of 65 ppmv (dry, corrected to 15% O<sub>2</sub>) for a 24-hour day average. If the facility complies with the emission requirements of the PSD conditions, then it will be considered in compliance with all of the above regulations. For 40 CFR 60 subpart GG, the facility chose not to take credit for the nitrogen content of the fuel when calculating the NO<sub>x</sub> emission limit, so they are not required to monitor the nitrogen content of the fuels combusted.

Indeck submitted a NO<sub>x</sub> Reasonably Available Control Technology (RACT) Compliance analysis dated October 11, 2019. The analysis included an economic feasibility evaluation. The 2019 NO<sub>x</sub> RACT analysis shows that current controls installed are meeting RACT requirements. In the RACT analysis, Indeck Silver Spring

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looked at additional control technology and new operating methods. 3 different options were evaluated: installing a low NO<sub>x</sub> burner, installing a selective catalytic converter with ammonia injection and Increasing the steam injection rates on the current system. Each of these options were determined to have cost greater than \$5,500 dollars for each ton of emissions reduced. Therefore, these options were considered to not be RACT. The current steam injection rate and emission limits of 32ppm and 54ppm constitutes RACT.

The PSD permit NO<sub>x</sub> limit is 32 ppm per hour when firing natural gas in the gas turbine. This is more stringent than the NO<sub>x</sub> limit in the NSPS for Combustion Gas Turbines, 40 CFR 60 subpart GG 60.332(a)(1), of 98 ppmv (dry, corrected to 15% O<sub>2</sub>) for a four-hour rolling average, and the NO<sub>x</sub> RACT limit from 6NYCRR Part 227-2.4(e)(2) of 42 ppmv (dry, corrected to 15% O<sub>2</sub>) for a 24-hour day average. If the facility complies with the emission requirements of this condition, then it will be considered in compliance with all of the above regulations.

Subpart KKKK—Standards of Performance for Stationary Combustion Turbines is applicable to new and modified combustion turbines after February 18, 2005. Modification is defined under NSPS regulations as any physical change in or change in the method of operation of, an existing facility which increases the amount of any air pollutant (to which the standard applies) emitted into the atmosphere. Increase in emissions under the NSPS regulations are based upon potential hourly emission rates. The proposed increase in the peak firing rate will increase emissions of NO<sub>x</sub> and SO<sub>2</sub>, which are NSPS regulated pollutants for combustion turbines. In accordance with Subpart KKKK, a combustion turbine with a rated heat input between 50 and 850 MMBtu/hr must meet an hourly NO<sub>x</sub> emission limit of 42 parts per million dry volume at 15% oxygen (ppmvdc) for natural gas firing and 96 ppmvdc for oil firing. The combustion gas turbine is currently meeting NO<sub>x</sub> emission permit limits of 32 ppmvdc for natural gas and 54 ppmvdc for oil firing. These limits are more stringent than the applicable Subpart KKKK limits. Therefore, the gas turbine is already meeting the requirements of subpart KKKK.

The facility accepted the following operational limits in the PSD permit, and they were carried over to this air permit; only natural gas and No. 2 fuel oil may be combusted in the gas turbine; only natural gas can be fired in the duct burner. Oil may not be combusted in the gas turbine for more than 2190 hours per year, and the facility may not combust more than 7,905,900 gallons of fuel oil per year based on daily rolling totals.

Indeck Silver Springs was evaluated for applicability with the revised 6 NYCRR Part 251, CO<sub>2</sub> Performance Standards for Major Electric Generating Facilities. It was determined that Part 251 does apply to Indeck Silver Springs as they are considered an existing major electric generating facility. Indeck must choose which CO<sub>2</sub> emission limit they will comply with, either the output-based limit or the input-based limit. Indeck has tentatively chosen to derive CO<sub>2</sub> emissions based on heat input. After December 31st of 2020, Indeck must comply with the new limit.

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The permittee is exempt from the requirements of Continuous Assurance Monitoring (CAM), 40CFR Part 64 because this permit requires the use of a continuous emission monitoring system (CEMS) to determine compliance with NOx emission limits on a continuous basis.

The Basis of Monitoring statement which provides a justification or description of monitoring requirements is part of the Permit Review Report (PRR). The PRR is a separate document that is not attached to this permit.

REFERENCE TABLES and GRAPHS

GAS TURBINE - Output in Kilowatts			
TEMP (deg F)		100% LOAD	80% LOAD
-10		42817	34819
48		37191	30309
88		31760	25817

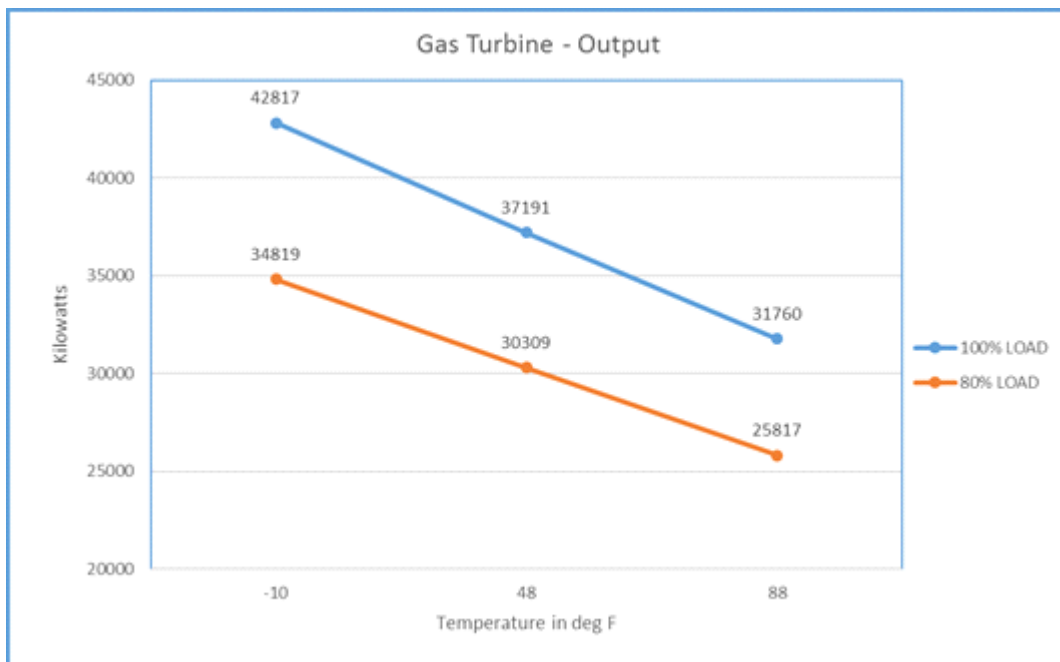


Figure 1

Gas Turbine Tables (oil) - heat input and emissions versus temperatrue

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GAS TURBINE (Oil Firing)					
TEMP (deg F)	Heat Input (mmbtu/hr)	SO2 lb/hr	NOX lb/hr	PM lbs/hr	CO lbs/hr
-10	509.54	140.44	110.00	17.00	44.00
48	445.73	122.07	99.00	17.00	40.00
88	396.02	108.45	85.00	17.00	36.00

DUCT BURNER					
TEMP (deg F)	Heat Input (mmbtu/hr)	SO2 lbs/hr	NOX lbs/hr	PM lbs/hr	CO lbs/hr
-10	DOES NOT FIRE OIL				
48					
88					

STACK					
TEMP (deg F)	Heat Input (mmbtu/hr)	SO2 lbs/hr	NOX lbs/hr	PM lbs/hr	CO lbs/hr
-10	509.54	140.44	110.00	17.00	44.00
48	445.73	122.07	99.00	17.00	40.00
88	396.02	108.45	85.00	17.00	36.00

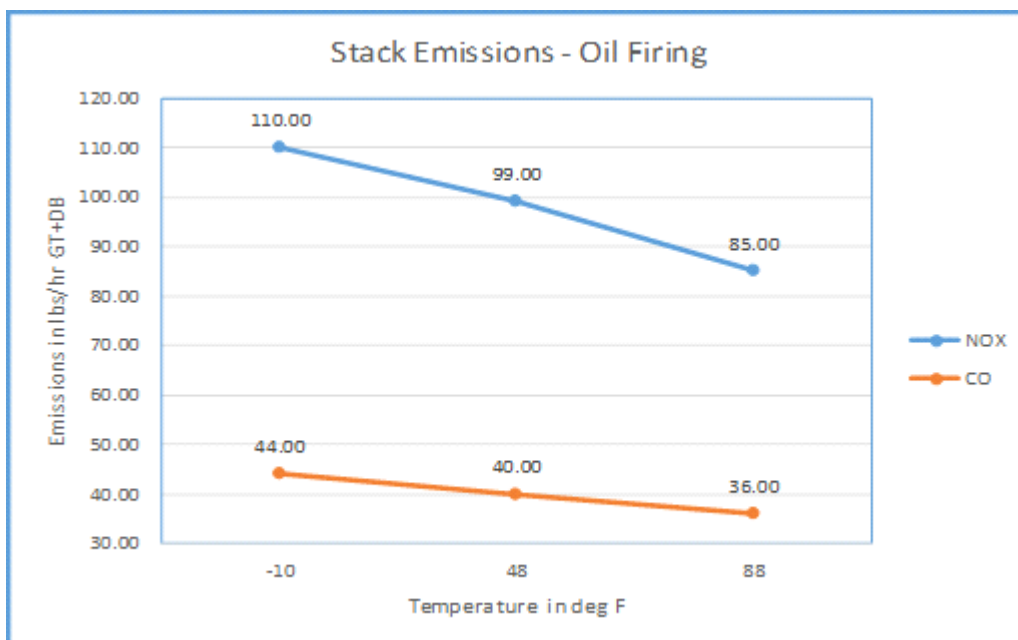


Figure 2

Gas Turbine Tables (natural gas) - heat input and emissions versus temperature

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GAS TURBINE (Peak)					
Temp (deg F)	Heat input mmbtu/hr	SO2 lbs/hr	NOx lbs/hr	PM lbs/hr	CO lbs/hr
-10	585.01	0.32	68.04	2.7	47.52
48	509.25	0.28	60.48	2.7	43.20
88	452.91	0.25	52.92	2.7	38.88

DUCT BURNER					
Temp (deg F)	Heat input mmbtu/hr	SO2 lbs/hr	NOx lbs/hr	PM lbs/hr	CO lbs/hr
-10	84.40	0.05	8.50	1.00	12.00
48	84.40	0.05	8.50	1.00	12.00
88	84.40	0.05	8.50	1.00	12.00

STACK					
Temp (deg F)	Heat input mmbtu/hr	SO2 lbs/hr	NOx lbs/hr	PM lbs/hr	CO lbs/hr
-10	669.41	0.37	76.54	3.7	59.52
48	593.65	0.33	68.98	3.7	55.20
88	537.31	0.30	61.42	3.7	50.88

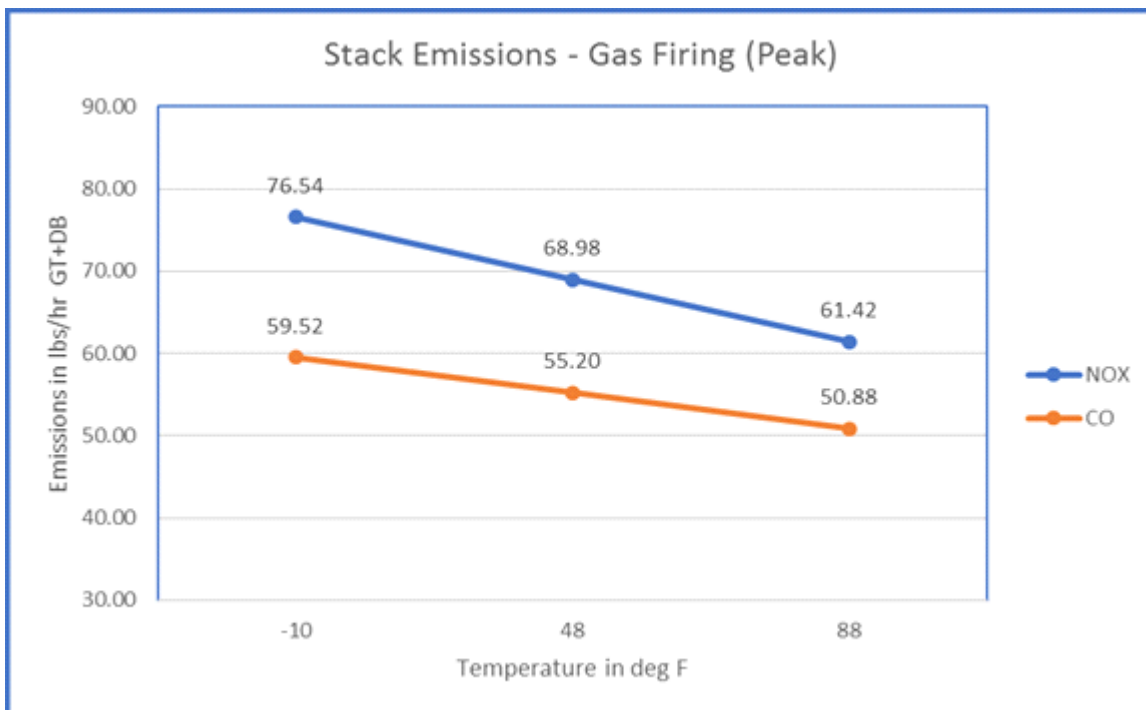


Figure 3

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

Permit Administrator:        DAVID S DENK  
   DIVISION OF ENVIRONMENTAL PERMITS  
   270 MICHIGAN AVE  
   BUFFALO, NY 14203-2915

Authorized Signature: \_\_\_\_\_ Date: \_\_\_ / \_\_\_ / \_\_\_\_\_



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**Notification of Other State Permittee Obligations**

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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**DEC GENERAL CONDITIONS**

**General Provisions**

- 4 1 Facility Inspection by the Department
- 4 2 Relationship of this Permit to Other Department Orders and Determinations
- 4 3 Applications for permit renewals, modifications and transfers
- 5 4 Permit modifications, suspensions or revocations by the Department

**Facility Level**

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

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**DEC GENERAL CONDITIONS**

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

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

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

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

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

**Item 1.1:**

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

**Item 1.2:**

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

**Item 1.3:**

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

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

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

**Item 2.1:**

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

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

**Applicable State Requirement: 6 NYCRR 621.11**

**Item 3.1:**

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

**Item 3.2:**

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

**Item 3.3**

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

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submitted prior to actual transfer of ownership.

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

**Item 4.1:**

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

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

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

**Condition 5: Submission of application for permit modification or renewal-REGION 9**  
**SUBOFFICE-ALLEGANY**  
**Applicable State Requirement: 6 NYCRR 621.6 (a)**

**Item 5.1:**

Submission of applications for permit modification or renewal are to be submitted to:  
NYSDEC Regional Permit Administrator  
Region 9 Sub-office  
Division of Environmental Permits  
182 E. Union Street  
Allegany, NY 14706-1328  
(716) 372-0645

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

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: INDECK ENERGY SERVICES OF SILVER SPRINGS  
600 N BUFFALO GROVE RD STE 300  
BUFFALO GROVE, IL 60089-2432

Facility: INDECK-SILVER SPRINGS ENERGY CENTER  
1 INDECK DR  
SILVER SPRINGS, NY 14550

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

Permit Effective Date: 06/24/2020

Permit Expiration Date: 06/23/2025

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**FEDERALLY ENFORCEABLE CONDITIONS**

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9	2	6 NYCRR 201-6.4 (a) (7): Fees
9	3	6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
9	4	6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
10	5	6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
12	6	6 NYCRR 201-6.4 (e): Compliance Certification
14	7	6 NYCRR 202-2.1: Compliance Certification
14	8	6 NYCRR 202-2.5: Recordkeeping requirements
14	9	6 NYCRR 215.2: Open Fires - Prohibitions
16	10	6 NYCRR 200.7: Maintenance of Equipment
16	11	6 NYCRR 201-1.7: Recycling and Salvage
16	12	6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
16	13	6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
16	14	6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
17	15	6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
17	16	6 NYCRR 201-6.4 (a) (8): Right to Inspect
17	17	6 NYCRR 201-6.4 (f) (6): Off Permit Changes
18	18	6 NYCRR 202-1.1: Required Emissions Tests
18	19	40 CFR Part 68: Accidental release provisions.
19	20	40CFR 82, Subpart F: Recycling and Emissions Reduction
19	21	6 NYCRR Subpart 201-6: Emission Unit Definition
19	22	6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
20	23	6 NYCRR 211.2: Visible Emissions Limited
20	24	6 NYCRR 225-1.2 (h): Compliance Certification
21	25	40CFR 52.21(j), Subpart A: Compliance Certification
22	26	40CFR 52.21(j), Subpart A: Compliance Certification
22	27	40 CFR Part 72: Facility Subject to Title IV Acid Rain Regulations and Permitting
22	28	40CFR 97.406, Subpart AAAAA: Compliance Certification
24	29	40CFR 97.606, Subpart CCCCC: Compliance Certification
25	30	40CFR 97, Subpart EEEEE: Compliance Certification
26	31	6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
26	32	6 NYCRR Subpart 201-6: Process Definition By Emission Unit

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27	33	6 NYCRR 227-1.3 (a): Compliance Certification
28	34	6 NYCRR 231-11.2 (c): Compliance Certification
30	35	40CFR 52.21(j), Subpart A: Compliance Certification
31	36	40CFR 52.21(j), Subpart A: Compliance Certification
32	37	40CFR 52.21(j), Subpart A: Compliance Certification
33	38	40CFR 52.21(j), Subpart A: Compliance Certification
34	39	40CFR 52.21(j), Subpart A: Compliance Certification

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- 35 40 40CFR 52.21(j), Subpart A: Compliance Certification
- 37 41 40CFR 52.21(j), Subpart A: Compliance Certification
- 37 42 40CFR 52.21(j), Subpart A: Compliance Certification
- 38 43 40CFR 52.21(j), Subpart A: Compliance Certification
- 39 44 40CFR 52.21(j), Subpart A: Compliance Certification
- 40 45 40CFR 52.21(j), Subpart A: Compliance Certification
- 41 46 40CFR 52.21(j), Subpart A: Compliance Certification
- 42 47 40CFR 52.21(j), Subpart A: Compliance Certification
- 43 48 40CFR 52.21(j), Subpart A: Compliance Certification
- 43 49 40CFR 52.21(j), Subpart A: Compliance Certification
- 44 50 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 45 51 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 45 52 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification

**EU=S-00001,EP=00001**

- 46 53 6 NYCRR Subpart 231-6: Compliance Certification
- 47 54 6 NYCRR Subpart 231-6: Compliance Certification
- 48 55 6 NYCRR Subpart 231-8: Compliance Certification
- 49 56 6 NYCRR Subpart 231-8: Compliance Certification
- 50 57 6 NYCRR Subpart 231-8: Compliance Certification

**EU=S-00001,EP=00001,Proc=200**

- 51 58 6 NYCRR 227-2.4 (e) (3): Compliance Certification
- 52 59 40CFR 52.21(j), Subpart A: Compliance Certification
- 53 60 40CFR 52.21(j), Subpart A: Compliance Certification
- 54 61 40CFR 52.21(j), Subpart A: Compliance Certification
- 55 62 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=S-00001,EP=00001,Proc=200,ES=S00GT**

- 56 63 40CFR 52.21(j), Subpart A: Compliance Certification
- 57 64 40CFR 52.21(j), Subpart A: Compliance Certification
- 58 65 40CFR 52.21(j), Subpart A: Compliance Certification
- 59 66 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=S-00001,EP=00001,Proc=400**

- 60 67 6 NYCRR 227-2.4 (e) (3): Compliance Certification
- 61 68 40CFR 52.21(j), Subpart A: Compliance Certification
- 62 69 40CFR 52.21(j), Subpart A: Compliance Certification
- 63 70 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=S-00001,EP=00001,Proc=400,ES=S00GT**

- 64 71 40CFR 52.21(j), Subpart A: Compliance Certification
- 65 72 40CFR 52.21(j), Subpart A: Compliance Certification
- 66 73 40CFR 52.21(j), Subpart A: Compliance Certification
- 67 74 40CFR 52.21(j), Subpart A: Compliance Certification

**EU=S-00001,EP=00001,Proc=800**

- 67 75 40CFR 52.21(j), Subpart A: Compliance Certification
- 69 76 40CFR 52.21(j), Subpart A: Compliance Certification
- 70 77 40CFR 52.21(j), Subpart A: Compliance Certification

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71 78 40CFR 52.21(j), Subpart A: Compliance Certification

**STATE ONLY ENFORCEABLE CONDITIONS**

**Facility Level**

74 79 ECL 19-0301: Contaminant List  
74 80 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities  
75 81 6 NYCRR 201-6.5 (a): CLCPA Applicability  
76 82 6 NYCRR 211.1: Air pollution prohibited  
76 83 6 NYCRR 242-1.5: Compliance Demonstration  
77 84 6 NYCRR Subpart 242-4: Compliance Demonstration  
79 85 6 NYCRR 242-8.5: Compliance Demonstration

**Emission Unit Level**

**EU=S-00001**

80 86 6 NYCRR 251.3 (b): Compliance Demonstration  
82 87 6 NYCRR 251.5: Compliance Demonstration



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**FEDERALLY ENFORCEABLE CONDITIONS**

Renewal 3/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 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement: 6 NYCRR 200.6**

**Item 1.1:**

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

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

**Condition 2: Fees**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 2.1:**

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

**Condition 3: Recordkeeping and Reporting of Compliance Monitoring**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 3.1:**

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

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

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

**Condition 4: Records of Monitoring, Sampling, and Measurement**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 4.1:**

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

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reports required by the permit.

**Condition 5: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 5.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 5.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

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

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

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

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

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

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

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

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

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

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

**Condition 6: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 6.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 6.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

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

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



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specified in any special permit terms or conditions;  
and

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

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

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

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

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

The address for the RAPCE is as follows:

Regional Air Pollution Control Engineer  
NYSDEC Region 9 Headquarters  
270 Michigan Avenue  
Buffalo, NY 14203-2915

The address for the BQA is as follows:

NYSDEC  
Bureau of Quality Assurance

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625 Broadway  
Albany, NY 12233-3258

Monitoring Frequency: ANNUALLY  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2021.  
Subsequent reports are due on the same day each year

**Condition 7: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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

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

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
Monitoring Description:

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

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

**Condition 8: Recordkeeping requirements**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

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

**Condition 9: Open Fires - Prohibitions**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement:6 NYCRR 215.2**

**Item 9.1:**

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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  
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE**

**The following federally enforceable permit conditions are mandatory for all**

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**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 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement:6 NYCRR 200.7**

**Item 10.1:**

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

**Condition 11: Recycling and Salvage**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 11.1:**

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

**Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**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 06/24/2020 and 06/23/2025**

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

**Item 13.1:**

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

**Condition 14: Trivial Sources - Proof of Eligibility**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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**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 06/24/2020 and 06/23/2025**

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

**Item 15.1:**

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

**Condition 16: Right to Inspect**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 16.1:**

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

- (i) enter upon the permittee's premises where a facility subject to the permitting requirements of this Subpart is located or emissions-related activity is conducted, or where records must be kept under the conditions of the permit;
- (ii) have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- (iii) inspect at reasonable times any emission sources, equipment (including monitoring and air pollution control equipment), practices, and operations regulated or required under the permit; and
- (iv) sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

**Condition 17: Off Permit Changes**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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**Applicable Federal Requirement:6 NYCRR 201-6.4 (f) (6)****Item 17.1:**

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

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

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

**Condition 18: Required Emissions Tests**  
**Effective between the dates of 06/24/2020 and 06/23/2025****Applicable Federal Requirement:6 NYCRR 202-1.1****Item 18.1:**

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 19: Accidental release provisions.**  
**Effective between the dates of 06/24/2020 and 06/23/2025****Applicable Federal Requirement:40 CFR Part 68****Item 19.1:**

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:

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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 20: Recycling and Emissions Reduction**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 20.1:**

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

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

**Condition 21: Emission Unit Definition**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 21.1:**

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

Emission Unit: S-00001

Emission Unit Description:

This emission unit consists of a 585 MMBtu/hr combustion gas turbine generator, an 84.4 MMBtu/hr duct burner and a heat recovery steam generator all venting to one exhaust stack. Steam injection is used to control emissions NO<sub>x</sub> the gas turbine. The turbine is also equipped with an evaporative cooler for the inlet combustion air.

Building(s): 1

**Condition 22: Progress Reports Due Semiannually**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

**Item 22.1:**

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 23: Visible Emissions Limited**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement:6 NYCRR 211.2**

**Item 23.1:**

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

**Condition 24: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 24.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 24.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

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



Permit ID: 9-5632-00010/00016

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Work Practice Type: PARAMETER OF PROCESS MATERIAL  
 Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL  
 Parameter Monitored: SULFUR CONTENT  
 Upper Permit Limit: 0.0015 percent by weight  
 Monitoring Frequency: PER DELIVERY  
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY  
 TIME (INSTANTANEOUS/DISCRETE OR GRAB)  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 25: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 25.1:**

The Compliance Certification activity will be performed for the Facility.

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

**Item 25.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC  
 OPERATIONS

Monitoring Description:

- 1.) Total facility fuel oil use shall not exceed 7,905,900 gallons based on a 365 day rolling total. This limit is from the Prevention of Significant Deterioration (PSD) permit issued to the plant.
- 2.) Fuel oil use shall be determined daily.
- 3.) Quarterly, report the 365 day rolling total fuel oil use for each day of the quarter.

Work Practice Type: PROCESS MATERIAL THRUPUT  
 Process Material: NUMBER 2 OIL  
 Upper Permit Limit: 7.9059 million gallons  
 Monitoring Frequency: DAILY  
 Averaging Method: ANNUAL TOTAL ROLLED DAILY  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 26: Compliance Certification**

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Effective between the dates of 06/24/2020 and 06/23/2025

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

**Item 26.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 26.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

- 1.) The total number of hours the turbine can operate shall not exceed 2190 per year while firing number 2 fuel oil. This shall be calculated by summing the hours of operation of the gas turbine while firing number 2 fuel oil. The requirement was originally in the PSD permit issued to this facility.
- 2.) The hours the turbine operates on fuel oil daily shall be recorded.
- 3.) Quarterly, report the 365 day rolling total hours of fuel oil operation for each day of the quarter.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 2190 hours

Monitoring Frequency: HOURLY

Averaging Method: ANNUAL TOTAL ROLLED DAILY

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 27: Facility Subject to Title IV Acid Rain Regulations and Permitting**

Effective between the dates of 06/24/2020 and 06/23/2025

Applicable Federal Requirement:40 CFR Part 72

**Item 27.1:** This facility is subject to the Title IV Acid Rain Regulations found in 40 CFR Parts 72, 73, 75, 76, 77 and 78. The Acid Rain Permit is an attachment to this permit.

**Condition 28: Compliance Certification**

Effective between the dates of 06/24/2020 and 06/23/2025

Applicable Federal Requirement:40CFR 97.406, Subpart AAAAA

**Item 28.1:**

The Compliance Certification activity will be performed for the Facility.

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Regulated Contaminant(s):

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

**Item 28.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.
- (2) The facility, and the designated representative, of each TR NO<sub>x</sub> Annual source (facility) and each TR NO<sub>x</sub> Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.
- (3) The emissions data determined shall be used to calculate allocations of TR NO<sub>x</sub> Annual allowances and to determine compliance with the TR NO<sub>x</sub> 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<sub>x</sub> Annual facility and each TR NO<sub>x</sub> Annual Unit at the facility shall hold, in the facilities compliance account, TR NO<sub>x</sub> Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO<sub>x</sub> emissions for such control period from all TR NO<sub>x</sub> Annual Units at the facility.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 29: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement: 40CFR 97.606, Subpart CCCCC**

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5      SULFUR DIOXIDE

**Item 29.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.613 through 97.618 of Subpart CCCCC. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.
  
- (2) The facility, and the designated representative, of each TR SO2 Group 1 source (facility) and each TR SO2 Group 1 Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.630 through 97.635 of Subpart CCCCC and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each 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

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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 30: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement:40CFR 97, Subpart EEEEE**

**Item 30.1:**

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

**Item 30.2:**

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 §§97.813 through 97.818 of Subpart EEEEE. The facility shall notify the Department of this representative (and alternate) with contact information upon issuance of this permit and when any changes are made to the representative (or alternate) or their contact information.

(2) The facility, and the designated representative, of each CSAPR NOx Ozone Season source (facility) and each CSAPR NOx Ozone Season Unit at the facility must comply with the monitoring, reporting, and recordkeeping requirements of §§97.830 through 97.835 of Subpart EEEEE 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

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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 §97.824(a) in an amount not less than the tons of total NOx emissions for such control period from all CSAPR NOx Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

**Condition 31: Emission Point Definition By Emission Unit**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 31.1:**

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

Emission Unit: S-00001

Emission Point: 00001

Height (ft.): 135

Diameter (in.): 138

NYTMN (km.): 4727.002 NYTME (km.): 247.747 Building: 1

**Condition 32: Process Definition By Emission Unit**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 32.1:**

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

Emission Unit: S-00001

Process: 200

Source Classification Code: 2-01-001-01

Process Description:

GE frame 6 gas turbine firing on number 2 distillate oil,

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with or without the duct burning firing natural gas.

Emission Source/Control: S00DB - Combustion  
Design Capacity: 84.4 million Btu per hour

Emission Source/Control: S00GT - Combustion  
Design Capacity: 585 million Btu per hour

Emission Source/Control: S0STM - Control  
Control Type: STEAM INJECTION

**Item 32.2:**

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

Emission Unit: S-00001  
Process: 400 Source Classification Code: 2-01-002-01  
Process Description:  
GE frame 6 gas turbine firing on natural gas, with or  
without the duct burning firing natural gas.

Emission Source/Control: S00DB - Combustion  
Design Capacity: 84.4 million Btu per hour

Emission Source/Control: S00GT - Combustion  
Design Capacity: 585 million Btu per hour

Emission Source/Control: S0STM - Control  
Control Type: STEAM INJECTION

**Item 32.3:**

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

Emission Unit: S-00001  
Process: 800 Source Classification Code: 2-01-002-01  
Process Description:  
GE Frame 6 combustion gas turbine firing natural gas and  
fuel oil simultaneously. The duct burner may be firing  
natural gas or may not be operating.

Emission Source/Control: S00DB - Combustion  
Design Capacity: 84.4 million Btu per hour

Emission Source/Control: S00GT - Combustion  
Design Capacity: 585 million Btu per hour

Emission Source/Control: S0STM - Control  
Control Type: STEAM INJECTION

**Condition 33: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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Facility DEC ID: 9563200010

**Item 33.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 33.2:**

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 emits greater than 20 percent opacity (six minute average), except for one six-minute period per hour of not more than 27 percent opacity.
- 2.) There are no New Source Performance Standard (NSPS) limits for opacity for the combustion gas turbine (Subpart GG and Supart KKKK) or the duct burner (Subpart Dc).
- 3.) In the event the facility experiences operational problems which could result in smoke, a stack observation shall be made. In the event visible emissions are observed a six-minute opacity observation shall be made according to EPA Method 9.
- 4.) An exceedance of the above opacity limit shall be promptly reported to the Department by FAX or telephone, the cause of the problem, when the problem occurred, the duration of the emission and an estimate of the emission opacity range.
- 5.) Any visible stack emissions reported by FAX or telephone shall also be reported to the Department as part of the quarterly report.

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: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 34: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**



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Facility DEC ID: 9563200010

**Applicable Federal Requirement: 6 NYCRR 231-11.2 (c)**

**Item 34.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 34.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential which is less than 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part, but equals or exceeds 50 percent of the applicable significant project threshold when emissions excluded in accordance with clause 231-4.1(b)(41)(i)(c) of this Part are added and is less than the applicable significant project threshold, or for a modification with a project emission potential which equals or exceeds 50 percent of the applicable significant project threshold in Table 3, Table 4 or Table 6 of Subpart 231-13 of this Part and is less than the applicable significant project threshold, the facility owner or operator must submit an application to modify the facility permit under the minor permit provisions of Subpart 201-6 of this Title or obtain a preconstruction permit under the provisions of Subpart 201-6 of this Title, and must:

(1) maintain the following information for a minimum of five years:

- (i) a description of the modification.
- (ii) an identification of each new or modified emission source(s) including the associated processes and emission unit.
- (iii) the calculation of the project emission potential for each modified emission source(s) including supporting documentation.

(iv) the date the modification commenced operation.

(2) monitor the emissions of each regulated NSR contaminant from the emission source(s) that will increase as a result of the modification, and calculate and maintain a record of the annual emissions, in tons per year on a calendar year basis, for a period of five years following resumption of regular operations after the

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modification, or for a period of 10 years following resumption of regular operations after the change if the modification increases the design capacity of or potential to emit the regulated NSR contaminant at such emission source(s); and

(3) submit a report to the department within 30 days after the end of each year during which records must be generated in accordance with Paragraph 231-11.2(c)(2) of this Part. The report must contain:

(i) the name, address, and telephone number of the major facility.

(ii) the annual emissions as calculated pursuant to Paragraph (c)(2) of this Section.

(iii) a comparison of actual annual emissions to the projected actual emissions and, if applicable, an explanation as to why the actual annual emissions exceeded the projected actual emissions.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 1/30/2021.

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

**Condition 35: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 35.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 35.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

1.) Carbon monoxide emissions from the duct burner alone while firing natural gas shall not exceed 12.0 lb/hr.

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This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 12.0 pounds per hour

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 36: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 36.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

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

**Item 36.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

1.) Oxides of nitrogen (NO<sub>x</sub>) from the duct burner alone while firing natural gas shall not exceed 8.5 lb/hr. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request of the Department.

3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

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Facility DEC ID: 9563200010

Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 8.5 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix A, Method 20  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 37: Compliance Certification**  
 Effective between the dates of 06/24/2020 and 06/23/2025

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

**Item 37.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 37.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

STARTUP or SHUTDOWN firing NATURAL GAS  
 The original PSD permit provided a three hour window during startup and shutdown when the emission limits were not enforce because the source could not technically meet them during these periods. It takes up to three hours of operation for the GT to reach efficient combustion and the CO emissions are reduced. During shutdown there may be unstable combustion which generates CO emissions.

1.) Firing natural gas, the combustion gas turbine shall not emit more than 97 pounds of CO during a startup or shutdown period. A startup period begins when the combustion process is initiated and lasts for 180 minutes (three hours). A shutdown period begins when the unit goes below the lowest level of stable operation or 80% of full load MW production, temperature dependent see figure 1.

2.) The hourly emissions for any partial hour after the end of the 180 minutes of startup period or before a shutdown period, will be calculated following the procedures in 40CFR Part 60, where there must be at least one minute of data outside the startup or shutdown period to be a valid 15-minute period. The calculated hourly average must comply with the normal operating emission

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limits.

3.) The total emissions from each startup and shutdown period shall be recorded. Data recording should be adjusted to reflect the CEM response time.

4.) CEM calibrations shall be avoided during the 180-minute startup or shutdown periods when feasible.

5.) Excess emissions shall be promptly reported to the Department and include the cause, the corrective action and the actual emissions. This information should also be included in the semi-annual compliance report.

Manufacturer Name/Model Number: CAI

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 97 pounds

Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 38: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 38.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

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

**Item 38.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

STARTUP or SHUTDOWN firing NATURAL GAS

The original PSD permit provided a three hour window during startup and shutdown when the emission limits were not enforce because the source could not technically meet them during these periods. It takes up to three hours of operation to generate the steam in the HRSR that is then

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injected into the GT to control NO<sub>x</sub> formation. During shutdown there may also be limited steam available for steam injection to control NO<sub>x</sub>.

- 1.) Firing natural gas, the combustion gas turbine shall not emit more than 201 pounds of NO<sub>x</sub> during a startup or shutdown period. A startup period begins when the combustion process is initiated and lasts for 180 minutes (three hours). A shutdown period begins when the unit goes below the lowest level of stable operation or 80% of full load MW production, temperature dependent see figure 1.
- 2.) The hourly emissions for any partial hour after the end of the 180 minutes of startup period or before a shutdown period, will be calculated following the procedures in 40CFR Part 60, where there must be at least one minute of data outside the startup or shutdown period to be a valid 15-minute period. The calculated hourly average must comply with the normal operating emission limits.
- 3.) The total emissions from each startup and shutdown period shall be recorded. Data recording should be adjusted to reflect the CEM response time.
- 4.) CEM calibrations shall be avoided during the 180-minute startup or shutdown periods when feasible.
- 5.) Excess emissions shall be promptly reported to the Department and include the cause, the corrective action and the actual emissions. This information should also be included in the semi-annual compliance report.

Manufacturer Name/Model Number: CAI

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 201 pounds

Reference Test Method: 40 CFR Part 60, Appendix B, PS 2

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 39: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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Facility DEC ID: 9563200010

**Item 39.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

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

**Item 39.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

- 1.) PM-10 particulate emissions from the duct burner while firing natural gas shall not exceed 0.01 lb./mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PM-10

Upper Permit Limit: 0.01 pounds per million Btus

Reference Test Method: 40 CFR Part 51, Appendix M, Method 201/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 40: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 40.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 40.2:**

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

STARTUP and SHUTDOWN firing FUEL OIL

The original PSD permit provided a three hour window during startup and shutdown when the emission limits were not enforce because the source could not technically meet them during these periods. It takes up to three hours of operation for the GT to reach efficient combustion and the CO emissions are reduced. During shutdown there may be unstable combustion which generates CO emissions.

1.) Firing fuel oil, the combustion gas turbine shall not emit more than 217 pounds of CO during a startup or shutdown period. A startup period begins when the combustion process is initiated and lasts for 180 minutes (three hours). A shutdown period begins when the unit goes below the lowest level of stable operation or 80% of full load MW production, temperature dependent see figure 1.

2.) The hourly emissions for any partial hour after the end of the 180 minutes of startup period or before a shutdown period, will be calculated following the procedures in 40CFR Part 60, where there must be at least one minute of data outside the startup or shutdown period to be a valid 15-minute period. The calculated hourly average must comply with the normal operating emission limits.

3.) The total emissions from each startup and shutdown period shall be recorded. Data recording should be adjusted to reflect the CEM response time.

4.) CEM calibrations shall be avoided during the 180-minute startup or shutdown periods when feasible.

5.) Excess emissions shall be promptly reported to the Department and include the cause, the corrective action and the actual emissions. This information should also be included in the semi-annual compliance report.

Manufacturer Name/Model Number: CAI

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 217 pounds

Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE



Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

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

**Condition 41: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 41.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001

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

**Item 41.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
 Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

- 1.) PM-10 particulate emissions from the duct burner while firing natural gas shall not exceed 1.0 lb/hr. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PM-10  
 Upper Permit Limit: 1.0 pounds per hour  
 Reference Test Method: 40 CFR Part 51 Appendix M, Methods 201/202  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 42: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

**Item 42.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

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

**Item 42.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

- 1.) Oxides of nitrogen (NO<sub>x</sub>) emissions from the duct burner alone while firing natural gas shall not exceed 0.10 lb/mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 20

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 43: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 43.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

**Item 43.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

- 1.) Particulate emissions from the duct burner while firing natural gas shall not exceed 0.01 lb./mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.01 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 44: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 44.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 44.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The following requirements were in the Prevention of Significant Deterioration (PSD) permit originally issued to the facility:

- 1) The temperature of the inlet air to the turbine, after the inlet air cooling system, and the ambient air temperature must be measured and recorded. Such measurements must be accurate within +/- 3 degrees

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Fahrenheit.

2) The turbine shall only fire natural gas and #2 fuel oil.

3) The duct burner shall only fire natural gas.

Periodically report the compliance status the above items.

Monitoring Frequency: CONTINUOUS  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 45: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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

Emission Unit: S-00001

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

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

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

STARTUP and SHUTDOWN firing FUEL OIL  
 The original PSD permit provided a three hour window during startup and shutdown when the emission limits were not enforce because the source could not technically meet them during these periods. It takes up to three hours of operation to generate the steam in the HRSG that is then injected into the GT to control NOx formation. During shutdown there may also be limited steam available for steam injection to control NOx.

1.) Firing fuel oil, the combustion gas turbine shall not emit more than 484 pounds of NOx during a startup or shutdown period. A startup period begins when the combustion process is initiated and lasts for 180 minutes (three hours). A shutdown period begins when the unit goes below the lowest level of stable operation or 80% of full load MW production, temperature dependent see figure 1.

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

- 2.) The hourly emissions for any partial hour after the end of the 180 minutes of startup period or before a shutdown period, will be calculated following the procedures in 40CFR Part 60, where there must be at least one minute of data outside the startup or shutdown period to be a valid 15-minute period. The calculated hourly average must comply with the normal operating emission limits.
- 3.) The total emissions from each startup and shutdown period shall be recorded. Data recording should be adjusted to reflect the CEM response time.
- 4.) CEM calibrations shall be avoided during the 180-minute startup or shutdown periods when feasible.
- 5.) Excess emissions shall be promptly reported to the Department and include the cause, the corrective action and the actual emissions. This information should also be included in the semi-annual compliance report.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 484 pounds  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED PER OCCURRENCE  
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 6 calendar month(s).

**Condition 46: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 46.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

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

**Item 46.2:**

Compliance Certification shall include the following monitoring:

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

- 1.) Carbon monoxide emissions from the duct burner while firing natural gas shall not exceed 0.14 lb/mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 0.14 pounds per million Btus

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 47: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 47.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 47.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

DUCT BURNER STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT

- 1.) Particulate emissions from the duct burner while firing natural gas shall not exceed 1.0 lb/hr. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PARTICULATES  
 Upper Permit Limit: 1.0 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix A, Method 5 or 17  
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 48: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 48.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 48.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES  
 Monitoring Description:

The facility shall install, calibrate, maintain and operate a continuous emission monitoring system in the gas turbine/duct burner exhaust stack to measure oxygen. Oxygen measurements are used to adjust NOx and CO measurements to a reference condition, 15% oxygen. This requirement was carried over from the original PSD (40 CFR Part 52.21(j)) permit. Semi-annually report the compliance status of this condition. Take into consideration the operation of the oxygen CEMS during the reporting period and the results of the required QA/QC evaluations.

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

**Condition 49: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

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

**Item 49.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 49.2:**

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

- 1.) The gas turbine may not operate below 80% load except during periods of startup and shutdown, not to exceed three hours. 80% load corresponds to 30.3 megawatts (MW, gas firing, at 48.0 degree F). The attached figure 1 correlates this limit to the current turbine inlet temperature. This condition was carried over from the original PSD permit.
- 2.) The average hourly MW output shall be measured. The 80% load for the ambient conditions shall be determined.
- 3.) The average hourly MW output and the 80% load for ambient conditions shall be recorded in a format acceptable to the Department.
- 4.) Quarterly, report the periods when the load was below 80%, including the time, hourly average, 80% load, the cause and the corrective actions.

Parameter Monitored: ELECTRICAL OUTPUT

Lower Permit Limit: 80 percent

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 50: Applicability of General Provisions of 40 CFR 60 Subpart A  
Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement: 40CFR 60, NSPS Subpart A**

**Item 50.1:**

This Condition applies to Emission Unit: S-00001

**Item 50.2:**

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility



Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

owner is responsible for complying with all applicable technical, administrative and reporting requirements.

**Condition 51: EPA Region 2 address.**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A**

**Item 51.1:**

This Condition applies to Emission Unit: S-00001

**Item 51.2:**

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

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

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

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

**Condition 52: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 52.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

**Item 52.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

DUCT BURNER

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Record and maintain records of the amount of each fuel combusted in the duct burner each day.

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

**Condition 53: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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

Emission Unit: S-00001                      Emission Point: 00001  
 Regulated Contaminant(s):  
 CAS No: 0NY210-00-0      OXIDES OF NITROGEN

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

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

- 1.) Under PEAK LOAD (108%) the combined emissions of Oxides of Nitrogen (NO<sub>x</sub>) from the gas turbine and duct burner while firing natural gas shall not exceed the values from the attached performance curves (Figure # 3) for the corresponding combustion air inlet temperature. The NO<sub>x</sub> limit of 69 lb/hr corresponds to an inlet air temperature of 48 degrees F.
- 2.) The gas turbine may operate at peak load in 15-minute intervals within an hour. The remainder of the hour can be operated at another load. Therefore, the hourly average stack emissions shall not exceed the emission limit as calculated in item 3 when the gas turbine operates at peak load for any portion of a clock hour.
- 3.)  $E = (E1 + E2 + E3 + E4)/4$

Where,  
 E is the emission limit in pounds per hour  
 E1 is the calculated emission limit for the 1st quarter of the hour,  
 E2 is the calculated emission limit for the 2nd quarter of the hour,  
 E3 is the calculated emission limit for the 3rd quarter of the hour,

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

E4 is the calculated emission limit for the 4th quarter of the hour,

\* The computer that operates the gas turbine calculates an equivalent hourly emission limit for each minute of operation based on ambient air temperature and load, among other factors. The temperature and load curves are attached. The equivalent hourly emission limit for each minute is used to calculate the equivalent hourly emission limit for each quarter in the hour.

4.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

5.) The actual emissions and the calculated limit must be recorded each hour.

6.) Record keeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 69 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 54: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 54.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001

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

**Item 54.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE FIRING ON NATURAL GAS WITH OR WITHOUT THE DUCT BURNER FIRING NATURAL GAS:

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

- 1.) Combined emissions of oxides of nitrogen (NOx) from the gas turbine and duct burner while firing natural gas shall not exceed the values from the attached performance curves (Figure # 3) under full load for the corresponding combustion air inlet temperature. The NOx limit of 69 lb/hr corresponds to an inlet air temperature of 48 degrees F. The limit was changed to 69 lbs/hr when the 2019 Prevention of Significant Deterioration (PSD) was conducted to evaluate the turbine with peak firing. Requirements are based on the higher heating value of the fuel burned and the peak firing heat rating.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification requirements in 40 CFR 60 Appendix B.
- 3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.
- 4.) Report the Quality Assurance test results required by 40 CFR 60 Appendix F, and the excess emission reports required by 40 CFR 60.7.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 69 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 55: Compliance Certification**  
 Effective between the dates of 06/24/2020 and 06/23/2025

**Applicable Federal Requirement: 6 NYCRR Subpart 231-8**

**Item 55.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001

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

**Item 55.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING  
 Monitoring Description:

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

- 1.) PM-10 emissions from the gas turbine alone while peak firing on natural gas shall not exceed 2.7 lb/hr. This limit was established to comply with Part 231-8 and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing

Parameter Monitored: PM-10

Upper Permit Limit: 2.7 pounds per hour

Reference Test Method: 40 CFR Part 51, Appendix M, Methods 201/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 56: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-8**

**Item 56.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 56.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

- 1.) Particulate emissions from the gas turbine alone while peak firing on natural gas shall not exceed 2.7 lb/hr. This limit was established to comply with Part 231-8 and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing

Parameter Monitored: PARTICULATES

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Upper Permit Limit: 2.7 pounds per hour

Reference Test Method: 40 CFR Part 60, Appendix A, Methods 5 or 17

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 57: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement: 6 NYCRR Subpart 231-8**

**Item 57.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Regulated Contaminant(s):

CAS No: 000630-08-0 CARBON MONOXIDE

**Item 57.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

1.) Under PEAK LOAD (108%) the combined emissions of carbon monoxide (CO) from the gas turbine and duct burner while firing natural gas shall not exceed the values from the attached performance curves (Figure # 3) for the corresponding combustion air inlet temperature. The CO limit of 55.2 lb/hr corresponds to an inlet air temperature of 48 degrees F.

2.) The gas turbine may operate at peak load in 15-minute intervals within an hour. The remainder of the hour can be operated at another load. Therefore, the hourly average stack emissions shall not exceed the emission limit as calculated in item 3 when the gas turbine operates at peak load for any portion of a clock hour.

$$3.) E = (E1 + E2 + E3 + E4)/4$$

Where,

E is the emission limit in pounds per hour

E1 is the calculated emission limit for the 1st quarter of the hour,

E2 is the calculated emission limit for the 2nd quarter of the hour,

E3 is the calculated emission limit for the 3rd quarter of the hour,

E4 is the calculated emission limit for the 4th quarter of the hour,

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\* The computer that operates the gas turbine calculates an equivalent hourly emission limit for each minute of operation based on ambient air temperature and load, among other factors. The temperature and load curves are attached. The equivalent hourly emission limit for each minute is used to calculate the equivalent hourly emission limit for each quarter in the hour.

4.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4A in 40 CFR 60 Appendix B.

5.) The actual emissions and the calculated limit must be recorded each hour.

6.) Record keeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 55.2 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 58: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (3)**

**Item 58.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 200

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

**Item 58.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT – Turbine Firing Fuel Oil

1.) Emissions of oxides of nitrogen (NOx) shall not exceed an hourly average of 54 ppmdv (dry, corrected to

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15% oxygen) while firing fuel oil.

2.) The October 11th, 2019 NOx Reasonably Available Control Technology (RACT) analysis concluded that using the current steam injection system to minimize NOx emissions is still RACT. The 54ppm limit was initially established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned. A new NOx RACT analysis will be required with each permit renewal.

3.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

4.) Recordkeeping and monitoring shall be conducted according to 60.7 and 60.13 or according to 40 CFR Part 75.

5.) The Quality Assurance test (RATA) results conducted according to 40 CFR Part 60, Appendix F or 40 CFR Part 75 shall be submitted to the Department. Excess emission reports required by 40 CFR Part 60.7 shall also be submitted to the Department. The annual recertification, quarterly accuracy, and daily calibration drift test must be performed in accordance with 40 CFR Part 60, Appendix F or 40 CFR Part 75.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 54 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 59: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 59.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 200

Regulated Contaminant(s):



Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

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

**Item 59.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2 DISTILLATE OIL WITH OR WITHOUT THE DUCT BURNER FIRING NATURAL GAS:

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) shall not exceed an hourly average of 54 ppmv (dry, corrected to 15% oxygen). This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.
- 3.) Recordkeeping and monitoring shall be conducted according with 60.7 and 60.13.
- 4.) Report the Quality Assurance test results required by 40 CFR 60 Appendix F, and the excess emissions reports required by 40 CFR 60.7.

Manufacturer Name/Model Number: CAI

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 54 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)

Reference Test Method: 40 CFR Part 60, Appendix B, PS 2

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 60: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 60.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 200

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Regulated Contaminant(s):

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

**Item 60.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2  
DISTILLATE OIL WITH OR WITHOUT THE DUCT BURNER FIRING  
NATURAL GAS:

- 1.) Emissions of oxides of nitrogen (NO<sub>x</sub>) shall not exceed the values from the attached performance curves (Figure # 2) under full load for the corresponding combustion air inlet temperature. The NO<sub>x</sub> limit of 99.0 lb/hr corresponds to an inlet air temperature of 48 degrees F. This limit was established to comply with Prevention of Significant Deterioration (PSD) BACT requirements and is based on heat input corresponding to the higher heating value of the fuel burned.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.
- 3.) Recordkeeping and monitoring shall be conducted according with 60.7 and 60.13.
- 4.) Report the Quality Assurance test results required by 40 CFR 60 Appendix F, and the excess emissions reports required by 40 CFR 60.7.

Manufacturer Name/Model Number: CAI

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 99.0 pounds per hour

Reference Test Method: 40 CFR Part 60, Appendix B, PS 2

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 61: Compliance Certification****Effective between the dates of 06/24/2020 and 06/23/2025****Applicable Federal Requirement: 40CFR 52.21(j), Subpart A****Item 61.1:**

The Compliance Certification activity will be performed for:

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Emission Unit: S-00001  
 Process: 200

Emission Point: 00001

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

**Item 61.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2  
 DISTILLATE OIL WITH OR WITHOUT THE DUCT BURNER FIRING  
 NATURAL GAS:

- 1.) Emissions of carbon monoxide (CO) shall not exceed the values from the attached performance curves (Figure # 2) under full load for the corresponding combustion air inlet temperature. The CO limit of 40.0 lb/hr corresponds to an inlet air temperature of 48 degrees F. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4 or 4A in 40 CFR 60 Appendix B.
- 3.) Recordkeeping and monitoring shall be conducted according with 60.7 and 60.13.
- 4.) Report the Quality Assurance test results required by 40 CFR 60 Appendix F, and the excess emissions reports required by 40 CFR 60.7.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 40.0 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 62: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 62.1:**

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 200

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

**Item 62.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2  
 DISTILLATE OIL WITH OR WITHOUT THE DUCT BURNER FIRING  
 NATURAL GAS:

- 1.) Emissions of carbon monoxide (CO) shall not exceed 44 ppmv (dry, corrected to 15% O<sub>2</sub>). This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel.
- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 4 or 4A in 40 CFR 60 Appendix B.
- 3.) Recordkeeping and monitoring shall be conducted according with 60.7 and 60.13.
- 4.) Report the Quality Assurance test results required by 40 CFR 60 Appendix F, and the excess emissions reports required by 40 CFR 60.7.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 44 parts per million by volume (dry, corrected to 15% O<sub>2</sub>)  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 63: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

**Item 63.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 200                                      Emission Source: S00GT

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

**Item 63.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) PM-10 particulate emissions shall not exceed 17.0 lb/hr. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PM-10

Upper Permit Limit: 17.0 pounds per hour

Reference Test Method: 40 CFR Part 51, Appendix M, Methods 201/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 64: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 64.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 200                                      Emission Source: S00GT

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

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

**Item 64.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) Particulate emissions shall not exceed 17.0 lb/hr. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing and submit a test report within 60 days of testing.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 17.0 pounds per hour

Reference Test Method: 40 CFR Part 60, Appendix A, Method 5 or 17

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 65: Compliance Certification**

Effective between the dates of 06/24/2020 and 06/23/2025

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

**Item 65.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 200

Emission Source: S00GT

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 65.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) Particulate emissions shall not exceed 0.041

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lb/mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.

- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for particulates upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing and submit a test report within 60 days of testing.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.041 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Methods 5 OR 17

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 66: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 66.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 200

Emission Source: S00GT

Regulated Contaminant(s):

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

**Item 66.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

NORMAL OPERATION OF GAS TURBINE WHILE FIRING NUMBER 2 DISTILLATE OIL. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) PM-10 particulate emissions shall not exceed 0.041 lb/mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test for PM-10 upon written request of the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

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Parameter Monitored: PM-10

Upper Permit Limit: 0.041 pounds per million Btus

Reference Test Method: 40 CFR Part 51, Appendix M, Methods 201/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 67: Compliance Certification**

Effective between the dates of 06/24/2020 and 06/23/2025

**Applicable Federal Requirement: 6 NYCRR 227-2.4 (e) (3)**

**Item 67.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 400

Regulated Contaminant(s):

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

**Item 67.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NOx RACT – Turbine Firing Natural Gas

1.) Emissions of oxides of nitrogen (NOx) shall not exceed an hourly average of 32 ppmv (dry, corrected to 15% oxygen) while firing natural gas.

2.) The October 11th, 2019 NOx Reasonably Available Control Technology (RACT) analysis concluded that using the current steam injection system used to minimize NOx emissions is still RACT. The 32ppm limit was initially established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned. A new NOx RACT analysis will be required with each permit renewal.

3.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification 2 in 40 CFR 60 Appendix B.

4.) Recordkeeping and monitoring shall be conducted according to 60.7 and 60.13 or according to 40 CFR Part 75.

5.) The Quality Assurance test (RATA) results conducted



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according to 40 CFR Part 60, Appendix F or 40 CFR Part 75 shall be submitted to the Department. Excess emission reports required by 40 CFR Part 60.7 shall also be submitted to the Department. The annual recertification, quarterly accuracy, and daily calibration drift test must be performed in accordance with 40 CFR Part 60, Appendix F or 40 CFR Part 75.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 32 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 68: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 68.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 400

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

**Item 68.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE FIRING ON NATURAL GAS WITH OR WITHOUT THE DUCT BURNER FIRING NATURAL GAS:

- 1.) Combined emissions of carbon monoxide (CO) from the gas turbine and duct burner while firing natural gas shall not exceed the values from the attached performance curves (Figure # 3) under full load for the corresponding combustion air inlet temperature. The CO limit of 55.2 lb/hr corresponds to an inlet air temperature of 48 degrees F. The limit was established to comply with Prevention of Significant Deterioration (PSD) BACT requirements and is based on the higher heating value of

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the fuel burned.

- 2.) The emissions shall be monitored by a continuous monitoring system (CEMS) meeting Performance Specification requirements in 40 CFR 60 Appendix B.
- 3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.
- 4.) Report the Quality Assurance test results required by 40 CFR 60 Appendix F, and the excess emission reports required by 40 CFR 60.7.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 55.2 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 69: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 69.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 400

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

**Item 69.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE FIRING NATURAL GAS AND THE AND DUCT BURNER FIRING OR NOT NATURAL GAS

- 1.) Emissions of carbon monoxide (CO) from the gas turbine while firing natural gas, with or without with the duct burner firing natural gas, shall not exceed an hourly average of 44 ppmv (dry, corrected to 15% oxygen). The limit was established to comply with Prevention of Significant Deterioration (PSD) BACT requirements and is

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based on the higher heating value of the fuel burned.

2.) A continuous emission monitoring system must be used to monitor CO emissions according to Part 60, Appendix B, Performance Specification 4.

3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.

4.) The owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with 40CFR 60.7(c).

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 44 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 70: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 70.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 400

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

**Item 70.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

NORMAL OPERATION FOR THE TURBINE FIRING ON NATURAL GAS WITH OR WITHOUT THE DUCT BURNER FIRING NATURAL GAS:

1.) Emissions of oxides of nitrogen (NOx) from the gas turbine while firing natural gas, with or without with the duct burner firing natural gas, shall not exceed an hourly average of 32 ppmv (dry, corrected to 15% oxygen). The

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limit was established to comply with Prevention of Significant Deterioration (PSD) BACT requirements and is based on the higher heating value of the fuel burned.

- 2.) A continuous emission monitoring system must be used to monitor NOx emissions according to Part 60, Appendix B, Performance Specification 2.
- 3.) Recordkeeping, reporting and monitoring shall be conducted according to 60.7 and 60.13.
- 4.) The owner or operator shall submit reports of excess emissions and monitor downtime, in accordance with 40CFR 60.7(c).

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 32 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1-HOUR AVERAGE  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 71: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 71.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001	Emission Point: 00001
Process: 400	Emission Source: S00GT

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

**Item 71.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) Particulate emissions from the gas turbine alone

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Facility DEC ID: 9563200010

while firing natural gas shall not exceed 2.7 lb/hr. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.

3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 2.7 pounds per hour

Reference Test Method: 40 CFR Part 60, Appendix A, Methods 5 or 17

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 72: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 72.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 400

Emission Source: S00GT

Regulated Contaminant(s):

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

**Item 72.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

1.) PM-10 particulate emissions from the gas turbine alone while firing natural gas shall not exceed 2.7 lb/hr.

This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.

2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.

3.) The facility shall submit a stack testing protocol

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for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PM-10

Upper Permit Limit: 2.7 pounds per hour

Reference Test Method: 40 CFR Part 51, Appendix M, Methods 201/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 73: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 73.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 400

Emission Source: S00GT

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

**Item 73.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) Particulate emissions from the gas turbine alone while firing natural gas shall not exceed 0.006 lb/mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.006 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 5 OR 17

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 74: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 74.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001

Emission Point: 00001

Process: 400

Emission Source: S00GT

Regulated Contaminant(s):

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

**Item 74.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

STACK TESTING OF THE TURBINE ALONE WHILE FIRING NATURAL GAS. STACK TESTING REQUIRED AT THE REQUEST OF THE DEPARTMENT.

- 1.) PM-10 particulate emissions from the gas turbine alone while firing natural gas shall not exceed 0.006 lb/mmBtu. This limit was established to comply with the BACT requirements associated with 40 CFR 52.21(j) and is based on the higher heating value of the fuel burned.
- 2.) The facility shall conduct periodic monitoring by conducting a stack emission test upon written request from the Department.
- 3.) The facility shall submit a stack testing protocol for Department approval 30 days before testing. A test report shall be submitted to the Department within 60 days of testing.

Parameter Monitored: PM-10

Upper Permit Limit: 0.006 pounds per million Btus

Reference Test Method: 40 CFR Part 51, Appendix M, Methods 201/202

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 75: Compliance Certification**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

**Item 75.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 800

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:

CO-FIRING NATURAL GAS AND OIL

1.) When co-firing natural gas and fuel oil in the CGT the source may not exceed the emission limit as calculated below. This limit is based on heat input corresponding to the higher heating value of the fuel burned.

$$2.) E = ((Eng \times Hng) + (Eo \times Ho)) / (Hng + Ho)$$

where

E is the nitrogen oxide (NOx) limit in pounds per hour

Eng is the natural gas NOx limit from the PSD conditions, 69.0 lb/hr\*

Hng is the heat input from natural gas during the hour, calculated using the higher heating value of the most recent natural gas analysis

Eo is the fuel oil NOx limit from the PSD conditions, 99.0 lb/hr\*

Ho is the heat input from fuel oil during the hour, based on the highest Gross Calorific Value (GCV) for the previous calendar year unless a higher sample value is obtained during the current calendar year, per 40CFR Part 75 App D, sec 2.2

\* The mass emission rates (lb/hr) correspond to an ambient temperature of 48 F. Use figures 2 & 3, attached, to correlate these limits to current ambient temperatures.

3.) The actual emissions and the calculated limit must be recorded each hour.

4.) Any emissions above the limit should be reported following the requirements of 60.7(c) and submitted quarterly.

Manufacturer Name/Model Number: CAI

Parameter Monitored: OXIDES OF NITROGEN



Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Upper Permit Limit: 99.0 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 76: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 76.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 800

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

**Item 76.2:**

Compliance Certification shall include the following monitoring:

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

CO-FIRING NATURAL GAS AND OIL

1.) When co-firing natural gas and fuel oil in the CGT the source may not exceed the emission limit as calculated below. This limit is based on heat input corresponding to the higher heating value of the fuel burned.

$$2.) E = ((Eng \times Hng) + (Eo \times Ho)) / (Hng + Ho)$$

where

E is the carbon monoxide (CO) limit in pounds per hour

Eng is the natural gas CO limit from the PSD conditions, 55.2 lb/hr\*

Hng is the heat input from natural gas during the hour, calculated using the higher heating value of the most recent natural gas analysis

Eo is the fuel oil CO limit from the PSD conditions, 40.0 lb/hr\*

Ho is the heat input from fuel oil during the hour, based on the highest Gross Calorific Value (GCV) for the previous calendar year unless a higher sample value is obtained during the current calendar year, per 40CFR Part 75 App D, sec 2.2

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

\* The mass emission rates (lb/hr) correspond to an ambient temperature of 48 F. Use figures 2 & 3, attached, to correlate these limits to current ambient temperatures.

3.) The hourly emissions and the calculated limit must be recorded each hour.

4.) Any emissions above the limit should be reported following the requirements of 60.7(c) and submitted quarterly.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: CARBON MONOXIDE  
 Upper Permit Limit: 55.2 pounds per hour  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 77: Compliance Certification**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 77.1:**

The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 800

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

**Item 77.2:**

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

CO-FIRING NATURAL GAS AND OIL

1.) When co-firing natural gas and fuel oil in the CGT the source may not exceed the emission limit as calculated below. This limit is based on heat input corresponding to the higher heating value of the fuel burned.

2.)  $E = ((Eng \times Hng) + (Eo \times Ho)) / (Hng + Ho)$   
 where

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

- E is the nitrogen oxide (NOx) limit in parts per million by volume
  - Eng is the natural gas NOx limit from the PSD conditions, 32 ppmv
  - Hng is the heat input from natural gas during the hour, calculated using the higher heating value of the most recent natural gas analysis.
  - Eo is the fuel oil NOx limit from the PSD conditions, 54 ppmv
  - Ho is the heat input from fuel oil during the hour, based on the highest Gross Calorific Value (GCV) for the previous calendar year unless a higher sample value is obtained during the current calendar year, per 40CFR Part 75 App D, sec 2.2
- 3.) The hourly emissions and the calculated limit must be recorded each hour.
- 4.) Any emissions above the limit should be reported following the requirements of 60.7(c) and submitted quarterly.

Manufacturer Name/Model Number: CAI  
 Parameter Monitored: OXIDES OF NITROGEN  
 Upper Permit Limit: 54 parts per million by volume (dry, corrected to 15% O2)  
 Reference Test Method: 40 CFR Part 60, Appendix B, PS 2  
 Monitoring Frequency: CONTINUOUS  
 Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME  
 Reporting Requirements: QUARTERLY (CALENDAR)  
 Reports due 30 days after the reporting period.  
 The initial report is due 7/30/2020.  
 Subsequent reports are due every 3 calendar month(s).

**Condition 78: Compliance Certification**  
 Effective between the dates of 06/24/2020 and 06/23/2025

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

**Item 78.1:**  
 The Compliance Certification activity will be performed for:

Emission Unit: S-00001                      Emission Point: 00001  
 Process: 800

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

**Item 78.2:**  
 Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Permit ID: 9-5632-00010/00016

Facility DEC ID: 9563200010

Monitoring Description:

CO-FIRING NATURAL GAS AND OIL

- 1.) The hourly emissions and the calculated limit must be recorded each hour.
- 2.) Any emissions above the limit should be reported following the requirements of 60.7(c) and submitted quarterly.

Manufacturer Name/Model Number: CAI

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 44 parts per million by volume (dry,  
corrected to 15% O<sub>2</sub>)

Reference Test Method: 40 CFR Part 60, Appendix B, PS 4A

Monitoring Frequency: CONTINUOUS

Averaging Method: 1 HOUR MAXIMUM - NOT TO BE EXCEEDED AT  
ANY TIME

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

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Facility DEC ID: 9563200010

**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 by 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 be demonstrated 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 permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize 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 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 upset 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 criteria, emission limits, terms, conditions, and

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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 79: Contaminant List**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 79.1:**

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 80: Malfunctions and start-up/shutdown activities**

**Effective between the dates of 06/24/2020 and 06/23/2025**

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**Applicable State Requirement:6 NYCRR 201-1.4****Item 80.1:**

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

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

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

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

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

**Condition 81: CLCPA Applicability****Effective between the dates of 06/24/2020 and 06/23/2025****Applicable State Requirement:6 NYCRR 201-6.5 (a)****Item 81.1:**

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

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emissions are reduced by 85% of 1990 levels.

**Condition 82: Air pollution prohibited**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable State Requirement:6 NYCRR 211.1**

**Item 82.1:**

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 83: Compliance Demonstration**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

**Item 83.1:**

The Compliance Demonstration activity will be performed for the Facility.

**Item 83.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

(iii) Copies of all reports, compliance certifications,



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and other submissions and all records made or required under the CO2 Budget Trading Program.

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 7/30/2020.

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

**Condition 84: Compliance Demonstration**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable State Requirement:6 NYCRR Subpart 242-4**

**Item 84.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 84.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Annual Compliance Certification Report:

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

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

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

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(2) as an option, the serial numbers of the CO<sub>2</sub> 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 CO<sub>2</sub> 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 CO<sub>2</sub> authorized account representative shall certify, based on reasonable inquiry of those persons with primary responsibility for operating the source and the CO<sub>2</sub> budget units at the source in compliance with the CO<sub>2</sub> Budget Trading Program, whether the source and each CO<sub>2</sub> 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 CO<sub>2</sub> Budget Trading Program, including:

(1) whether the source was operated in compliance with the CO<sub>2</sub> 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 CO<sub>2</sub> emissions to the unit, in accordance with Subpart 242-8 of this Part;

(3) whether all the CO<sub>2</sub> emissions from the units at the source were monitored or accounted for through the missing data procedures and reported in the quarterly monitoring reports, including whether conditional data were reported in the quarterly reports in accordance with Subpart 242-8 of this Part. If conditional data were reported, the owner or operator shall indicate whether the status of all conditional data has been resolved and all necessary quarterly report resubmissions have been made;

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

(5) if a change is required to be reported under paragraph

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(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 85: Compliance Demonstration**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable State Requirement: 6 NYCRR 242-8.5**

**Item 85.1:**

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 85.2:**

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 CO<sub>2</sub> 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 CO<sub>2</sub> budget unit shall submit a monitoring plan in the manner prescribed in 40 CFR 75.62.

(c) Certification applications. The CO<sub>2</sub> authorized account representative shall submit an application to the department within 45 days after completing all CO<sub>2</sub> monitoring system initial certification or recertification tests required under section 242-8.2 of this Subpart including the information required under 40 CFR 75.63 and 40 CFR 75.53(e) and (f).

(d) Quarterly reports. The CO<sub>2</sub> authorized account representative shall submit quarterly reports, as follows:

(1) The CO<sub>2</sub> authorized account representative shall

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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, NOx, 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 7/30/2020.

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

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

**Condition 86: Compliance Demonstration**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

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

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**Item 86.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: S-00001

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

**Item 86.2:**

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

1. The facility is a major electric generating facility that has the capacity to combust both natural gas and oil, and is subject to 6 NYCRR Part 251, CO2 Performance Standards for Major Electric Generating Facilities.
2. The facility operates a combustion gas turbine that is considered a non-modified existing source under 6 NYCRR Part 251.3(b).
3. 6 NYCRR Part 251.3(b) prohibits owners or operators from firing "any single fossil fuel, alone or in combination with any other fuel, with an emission rate that is greater than or equal to 1,800 pounds of CO2 per MW hour (gross) electrical output or 180 pounds of CO2 per million Btu of input", starting January 1 of 2021.
4. Indeck has tentatively decided to calculate, record and report CO2 emissions based on heat input. The 180 pound limit of CO2 per million Btu will take effect on January 1, 2021. Indeck may choose to change to the output-based limit by notifying the Department prior to January 1, 2021.
5. The facility shall monitor emissions of CO2 by measuring and recording the heat input and computing CO2 emissions using Eq G-4 under section 2.3 of 40 CFR Part 75, Appendix G (hourly heat input to estimate hourly CO2 mass emissions) and Appendix F (Table 1—F- and Fc-Factors). Appendix G calculation methods are an alternative to using a Continuous Emission Monitoring System (CEMS) to measure CO2 in 40 CFR Part 75.13(b), where Part 251.5(b)(1) calls for the installation of CO2 CEMS in accordance with 40 CFR Part 75.13.
6. 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 to the Department. [251.3]

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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 CO<sub>2</sub>/MMBtu heat input value to demonstrate compliance.

7. 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.

8. The first annual compliance period is from January 1, 2021 through December 31, 2021.

Parameter Monitored: CARBON DIOXIDE  
Upper Permit Limit: 180 pounds per million Btus  
Reference Test Method: 40 CFR Part 75 Appendix G  
Monitoring Frequency: CONTINUOUS  
Averaging Method: CALENDAR YEAR AVERAGE  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2021.  
Subsequent reports are due every 12 calendar month(s).

**Condition 87: Compliance Demonstration**  
**Effective between the dates of 06/24/2020 and 06/23/2025**

**Applicable State Requirement: 6 NYCRR 251.5**

**Item 87.1:**

The Compliance Demonstration activity will be performed for:

Emission Unit: S-00001

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

**Item 87.2:**

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

1. The facility is a major electric generating facility that has the capacity to combust both natural gas and oil and is subject to 6 NYCRR Part 251, CO<sub>2</sub> Performance Standards for Major Electric Generating Facilities.
2. The facility operates a combustion gas turbine that is considered a non-modified existing source under 6 NYCRR Part 251.3(b).

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3. 6 NYCRR Part 251.3(b) prohibits owners or operators from firing "any single fossil fuel, alone or in combination with any other fuel, with an emission rate that is greater than or equal to 1,800 pounds of CO<sub>2</sub> per MW hour (gross) electrical output or 180 pounds of CO<sub>2</sub> per million Btu of input", starting January 1 of 2021.

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

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

6. The owner or operator shall report the CO<sub>2</sub> 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. 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 CO<sub>2</sub> emissions. Reports are due within 30 days following the end of the calendar quarter. [251.6(e)]

7. 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 7/30/2020.

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



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