

Facility DEC ID: 2630800096

PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6308-00096/00009
Effective Date:

Expiration Date:

Permit Issued To:KIAC PARTNERS
C/O CALPINE OPERATING SVCES CO INC
717 TEXAS AVE STE 1000
HOUSTON, TX 77002

Contact: PATRICK BLANCHARD
CALPINE CORPORATION
717 Texas Ave Ste 1000
Houston, TX 77002
(713) 830-8871

Facility: CALPINE JFK ENERGY CENTER
KENNEDY INTERNATIONAL AIRPORT BLDG 49|ENTER THROUGH
SIGN TO TERMINAL 7 PARKING
JAMAICA, NY 11430

Contact: MICHAEL O'BRIEN
CALPINE JFK ENERGY CENTER
KENNEDY INTERNATIONAL AIRPORT BLDG 49
JAMAICA, NY 11430
(718) 995-0547

Description:

PERMIT DESCRIPTION
KIAC COGENERATION PLANT - JFK AIRPORT
DEC ID # 2-6308-00096/00009 (Ren 3)

This is a Title V Renewal #3 for a major facility,Calpine JFK Energy Center (KIAC) Facility located in Jamaica, New York. This facility is not a PSD/non-attainment NSR major source. This permit application reflects:

1. The addition of Emission Unit B-OILRS, which includes six existing emergency boilers (Ren 2, Mod 1) that are located at the KIAC facility. These six boilers are owned by the Port Authority of New York / New Jersey (PANY / NJ) and currently operated by Calpine Operating Services Company, Inc. (Calpine). In 1993, PANY /NJ applied for Certificates to Operate these six boilers and received the Certificates to Operate on November 22, 1995. This was achieved in Ren 2, Mod 1 that was issued on 1/26/2018.
2. The software upgrade for two General Electric LM6000 (Emission Sources

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GT001 & GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance. Specifically, the proposed Peak Performance ("Throttle Push") controls software upgrade allows for increased firing temperature in the combustion turbine. This was achieved in Ren 2, Mod 2 that was issued on 7/22/2020.

Kennedy International Airport Co-generation Partners (KIAC Partners) is located in the middle of the central terminal area of the J.F. Kennedy International Airport, Building No. 49, in Jamaica, New York. The KIAC co-generation plant supplies electricity to the JFK International Airport and to the Consolidated Edison (Con Ed) Power Distribution Grid, and also supplies steam to the airport's central heating and refrigeration plant. This facility is not a PSD source. The co-generation plant consists of two (2) General Electric LM6000 gas combustion turbines, which are permitted to fire both natural gas and low sulfur distillate oil. The duct burners are limited to only natural gas firing. Each gas combustion turbine is equipped with a supplementary fired duct burner and Heat Recovery Steam Generator (HRSG). The gross heat capacity of the co-generation plant is 469 mmBTU/HR for each gas turbine and 718 mmBTU/HR each of the combined gas turbine and duct burner operation, which is based on the higher heating value (HHV) of natural gas. The cogeneration units are individually vented through two exhaust stacks, which vent emissions from each gas turbine and associated duct burner unit. The combustion turbines fire natural gas as the primary fuel with low sulfur distillate oil (jet fuel with a maximum sulfur content of 0.091%) as the backup fuel. Low sulfur distillate oil firing is limited to 4.8 million gal/yr per combustion turbine. The duct burners are limited to natural gas firing. Each of the General Electric LM6000 PC Sprint gas combustion turbines is designed with water injection as the first level of NO_x control and Selective Catalytic Reduction (SCR) as the secondary NO_x control system, for both residual combustion turbine NO_x and duct burner NO_x reduction. The SCR catalyst as the dual function of CO oxidation to CO₂ and NO_x reduction to N₂ and H₂O. The KIAC Cogeneration facility operates and maintains Continuous Emission Monitors (CEM) and continuous data recorder NO_x, CO Oxygen and Ammonia to monitor the emissions from each combustion turbine/duct burner. The standard industrial classification code (SIC) is 4931 - Electric and Other Services Combined (electric less than 95 percent of total).

There are two identical emissions units (U-00001 and U-00002) exhausting to individual emission points (EP: 00001 and EP: 00002). Each emission unit consists of a combustion turbine, duct burner and selective catalytic reduction (SCR) emission source.

KIAC Partners co-generation plant consists of the following two emission units:

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Emission Unit U-00001 consists of one General Electric LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) equipped with a supplemental firing COEN duct burner (Emission Source DB001). The combustion turbine was constructed on 5/1/1994 and began operating on 3/1/1995. At the time of construction, the turbine was equipped with Coen Lo NO_x Lo CO controls and ammonia injectors (Emission Control SCR01) as the emission control. The combustion turbine is capable of firing either natural gas or low sulfur distillate oil (jet fuel with a maximum sulfur content of 0.091%). The combustion turbine fires natural gas (Processes GT1 & GT5) as a primary fuel and low sulfur distillate oil or jet fuel with a maximum sulfur content of 0.091% (Processes GT3 & GT7) as a secondary backup fuel. Processes GT1 & GT3 are with supplemental firing of duct burner and Processes GT5 & GT7 are with no supplemental firing of duct burner. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001 that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control. Coen Lo NO_x Lo CO controls and ammonia injectors (emission control 00SCR) as the emission control. Light distillate oil (jet fuel with a maximum sulfur content of 0.091%) firing is limited to 4.8 million gal/yr per combustion turbine.

Emission Unit U-00002 consists of one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) equipped with a supplemental firing COEN duct burner (Emission Source DB002). The combustion turbine was constructed on 5/1/1994 and began operating on 3/1/1995. At the time of construction, the turbine was equipped with Coen Lo NO_x Lo CO controls and ammonia injectors (Emission Control SCR02) as the emission control. The combustion turbine fires natural gas (Processes GT2 & GT6) as a primary fuel and low sulfur distillate oil or jet fuel with a maximum sulfur content of 0.091% (Processes GT4 & GT8) as a secondary backup fuel. Processes GT2 & GT4 are with supplemental firing of duct burner and Processes GT6 & GT8 are with no supplemental firing of duct burner. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002 that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control. Low sulfur distillate oil (jet fuel with a maximum sulfur content of 0.091%) firing is limited to 4.8 million gal/yr per combustion turbine.

Emission Unit B-OILRS consists of six (6) emergency boilers. These boilers are owned by the Port Authority of New York/New Jersey (PANY/NJ), but operated by Calpine. In the past, these

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boilers have operated under Certificates to Operate that were issued to the PANY/NJ on November 22, 1995.

The six boilers operate on natural gas (Processes BG1 & BG2), and Aviation-Grade Kerosene or jet fuel - low sulfur distillate oil (Processes BD1 & BD2). These boilers were previously included in permits for another facility. The six emergency boilers are part of the KIAC facility (which qualifies as a major source of NO_x emissions), and are subject to 6 NYCRR Part 227-2 which specifies the Reasonably Available Control Technology Requirements (RACT) for major facilities of Nitrogen Oxides (NO_x). Under Part 227-2, these boilers qualify as "mid-size" boilers that fire distillate oil/natural gas.

All six boilers are mid-size boilers (between 25 and 100 MM Btu/hr). Emission Sources HWG01, HWG02, HWG05 and HWG06 are equipped with an oxygen trim system "that maintains an optimum air-to-fuel ratio". Boilers HWG02 & HWG03 are not equipped with an oxygen trim system as an emission control, but Boilers HWG01, HWG04, HWG05 & HWG06 are equipped with an oxygen trim system as an emission control.

On the basis of the May 15, 2017 NO_x RACT variance analysis which is based on Air-Guide 20 "Economic and Technical analysis for Reasonably Available Control Networks" that the facility submitted, the facility demonstrated the lack of economic feasibility of \$7,064 per ton of NO_x reduced for LNB-FGR to reduce a ton of NO_x, which was much higher than the threshold of \$5,000 per ton for NO_x RACT. As a result, the facility was granted a variance by the Department and by the Administrator as a revision to the State Implementation Plan, and was based on the stack testing results conducted in the report dated February 22, 2017. The approved alternative NO_x emission limit when each of the six boilers operate on natural gas (Processes BG1 & BG2) is 0.15 pounds of NO_x per million Btus, while firing low sulfur distillate oil is 0.25 pounds of NO_x per million Btus. As per 6 NYCRR 227-2.4 (c) (1), these limits are slightly higher than the 0.08 pounds per million Btus for natural gas and the 0.20 pounds per million Btus for low sulfur distillate oil (Processes BD1 & BD2) for mid-size boilers (between 25 and 100 MM Btu/hr). The NO_x RACT variance was reflected in the Ren 2, Mod 1 issuance of the permit on 1/26/2018.

To demonstrate compliance and to verify these NO_x limits and to demonstrate compliance, once every five (5) years, the facility shall conduct NO_x emission testing as per 6 NYCRR 227-2.6 (c) under subdivision (a) of this section on four boilers that are selected to be representative of all boilers based upon equipment manufacturer, make and model number.

With the issuance of Ren 2, Mod 1 on 1/26/2018, the facility has been granted a

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NO_x RACT variance of 0.15 lbs/MM Btu NO_x emission rate for each of the six mid-size emergency boilers when operating on natural gas (Processes BG1 & BG2), and 0.25 lbs/MM Btu NO_x emission rate when operating on aviation-grade kerosene - jet fuel or low sulfur distillate oil (Processes BD1 & BD2) as per 6 NYCRR 227-2.5 (c), instead of the 0.08 lbs/MM Btu NO_x RACT required for 6 NYCRR 227-2.4 (c)(1) for mid-size boilers operating on distillate oil/gas.

The total NO_x emissions for six emergency boilers are capped at 24 tons per year of NO_x, on a rolling 12-month basis. Monthly records shall be kept at the facility. Records will be available for inspection by the DEC staff, and the facility will maintain records on-site for a minimum of five years. Emissions will be calculated based on the most recent stack test result.

KIAC primarily uses natural gas for the operation of the two combustion turbines and their associated duct burners, and very infrequently uses low sulfur distillate oil for the two combustion turbines. But KIAC's contract with NYISO requires that Calpine maintains the ability to have dual fuel capability in the event of natural gas shortages or emergencies.

The two combustion turbines at KIAC use the low sulfur distillate oil that is considered to be jet fuel (with a maximum sulfur content is 0.091%) for its operation and is supplied by the Kennedy Airport and is the same fuel that is utilized by the airport for fueling airplanes and does not meet the 0.0015 percent sulfur limitation according to 6 NYCRR 225-1.2.

The low sulfur distillate oil is supplied to the KIAC Energy Center via an underground pipeline owned by the Port Authority of NY/NJ. The facility has reviewed the sulfur in fuel data for the liquid jet fuel received from the airport and used by the airplanes and also by KIAC in their two combustion turbines; the current average sulfur content of the jet fuel is 0.074%, and the maximum sulfur content is 0.091%. As the fuel used at KIAC is supplied via pipeline, the facility is required to maintain the collection/analysis of the fuel oil sample each time the fuel is delivered.

In addition to renewing the Title V permit for an existing cogeneration facility, mandatory Condition # for 6 NYCRR 201-6.5 (a) for the CLCPA (Climate Leadership and community Protection Act) applicability and Conditions # 153 & # 156 for 6 NYCRR 251.3 (b) for the CO₂ have been added to the permit. These conditions for 6 NYCRR 251.3 (b) require each fossil fuel to meet an emission rate of 180 pounds of CO₂ per million Btu of input (input-based limit).

The Title V Permit contains a complete listing of the applicable Federal, State

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and compliance monitoring requirements for the facility, its emission units and emission points. The facility (co-generation plant) is subject to the provisions of Title V for sulfur dioxide, 6NYCRR 225-1.2, fuel composition and use - sulfur limitations, which restricts the sulfur content of fuel oil (jet fuel) utilized throughout the facility to 0.091% by weight or less and to the record keeping of fuel analysis, 6NYCRR 225-1.6. The facility has to comply with 6NYCRR 227.2(b)(1), the particulates standard of 0.1 lb/MM Btu for turbines exceeding 250 MM Btu/hr heat capacity, 6NYCRR 227-1.3(a) and 6NYCRR 227-1.4, the 20% opacity standard using visible emission observations (with EPA Method 9 assessments as necessary). The facility is also subject to 6NYCRR 227-1.4(a), CEM of carbon dioxide or % of oxygen, 6NYCRR 227-1.4(b), record keeping of fuel heating value. The facility is subject to 6NYCRR 227-2.6(a)(1), oxides of nitrogen emissions using CEMS and 6NYCRR 227-2.6(b), record keeping of oxides of nitrogen using CEMS. The facility is subject to 6NYCRR 231-1, lowest achievable emission rate and 40CFR 52-A-21(j), best available control technology. The facility is also subject to 6 NYCRR 212-2.3 (b), the state air program for non-criteria air contaminants for the Ammonia emission limits for various processes for the two combustion turbines. The facility is also subject to 6 NYCRR 231-2.7 (b) for the net emission increase determination for the CO and the NOx emission limits for various processes for the two combustion turbines. The facility is subject to the general provisions, notifications, record keeping, performance tests, compliance and monitoring requirements of 40CFR 60-A. The facility is also subject to 40CFR 60-Db, compliance and performance test methods and procedures for sulfur dioxide and particulate matter in addition to the emission monitoring, reporting and record keeping requirements for sulfur dioxide, particulate matter and nitrogen oxides. In addition, the facility is subject to 40CFR 60-GG.334, the monitoring of operations for turbines, fuel sulfur and nitrogen content monitoring requirements and bulk storage fuel monitoring requirements and 40CFR 60-GG.335, optional test methods and procedures for oxides of nitrogen and sulfur dioxide. The facility is subject to 6 NYCRR Part 242, which is RGGI (Regional Greenhouse Gas Initiative), and establishes the New York State component of the CO2 Budget Trading Program. In addition, the facility is subject to the Cross-State Air Pollution Rule (CSAPR) regulations for NOx and SO2 Trading Programs, 40 CFR 97.406 for Transport Rule NOx Annual Trading Program, and 40 CFR 97.606 for Transport Rule SO2 Group 1 Trading Program. Finally, the facility is subject to 6 NYCRR 251 CO2 Performance Standards for Major Electric Generating Facilities.

The continuous emissions monitoring system (CEMS) installed are to be used to monitor emissions from the combustion turbine/HRSG and duct burners units. The mass emission rate (lbs/hr) of NOx and CO from the combustion turbine/duct burner stacks must be continuously calculated using the

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methodology contained in the CEM monitoring plan. The facility shall monitor continuously and determine daily:

1. The average hourly rate of each fuel burned.
2. The average hourly electrical output.
3. The minimum and maximum hourly generation rate.

The requirement to monitor the gross heating value and ash content of fuel burned at least once per week is waived. The facility uses CEMS on each of its stacks and determines heat content of fuel burned on a continuous basis. At the request of the NYSDEC, the facility shall submit a written report of excess emissions semiannually and indicating the nature and cause of the excessive emissions if known. The facility shall retain records and summaries for at least five years, and upon the request of the NYSDEC shall furnish such records and summaries.

The facility operates other sources which are considered exempt from permitting in accordance with 6NYCRR 201-3.2 (c), including one (1) Black Start generator (<500 hours/year), one (1) non-contact water cooling tower and water treatment systems for process cooling water, one (1) storage tank with capacity < 10,000 gallons, two (2) horizontal petroleum storage tanks, and one (1) ventilating and exhaust system for laboratory operations.

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

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

Authorized Signature: _____ Date: ___ / ___ / ____

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Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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

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- 10 2 Relationship of this Permit to Other Department Orders and Determinations
- 10 3 Applications for permit renewals, modifications and transfers
- 11 4 Permit modifications, suspensions or revocations by the Department

Facility Level

- 11 5 Submission of application for permit modification or renewal -
REGION 2 HEADQUARTERS

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DEC GENERAL CONDITIONS****** General Provisions ******

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

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

Item 3.3

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

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

Item 4.1:

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

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

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

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

Item 5.1:

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

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: KIAC PARTNERS
C/O CALPINE OPERATING SVCES CO INC
717 TEXAS AVE STE 1000
HOUSTON, TX 77002

Facility: CALPINE JFK ENERGY CENTER
KENNEDY INTERNATIONAL AIRPORT BLDG 49|ENTER THROUGH
SIGN TO TERMINAL 7 PARKING
JAMAICA, NY 11430

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

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10	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
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- 64 46 6 NYCRR 227-2.4 (e) (2): Compliance Certification
- 67 47 6 NYCRR 227-2.5 (c): Compliance Certification
- 70 48 6 NYCRR 227-2.5 (c): Compliance Certification
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- 75 50 6 NYCRR 227-2.6: Compliance Certification
- 76 51 6 NYCRR 227-2.6 (a): Compliance Certification
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- 79 53 6 NYCRR 227.2 (b) (1): Compliance Certification
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- 83 55 6 NYCRR 231-2.7 (b): Compliance Certification
- 84 56 6 NYCRR 231-2.7 (b): Compliance Certification
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- 99 67 6 NYCRR 231-2.7 (b): Compliance Certification
- 100 68 6 NYCRR 231-2.7 (b): Compliance Certification
- 102 69 6 NYCRR 231-2.7 (b): Compliance Certification
- 103 70 6 NYCRR 231-2.7 (b): Compliance Certification
- 104 71 6 NYCRR 231-2.7 (b): Compliance Certification
- 106 72 6 NYCRR 231-2.7 (b): Compliance Certification
- 107 73 6 NYCRR 231-2.7 (b): Compliance Certification
- 109 74 6 NYCRR 231-2.7 (b): Compliance Certification
- 111 75 6 NYCRR 231-11.2: Compliance Certification
- 112 76 6 NYCRR 231-11.2 (c): Compliance Certification
- 114 77 6 NYCRR Subpart 231-13: Compliance Certification
- 115 78 40CFR 52.21(j), Subpart A: Compliance Certification
- 116 79 40CFR 52.21(j), Subpart A: Compliance Certification
- 118 80 40CFR 52.21(j), Subpart A: Compliance Certification
- 119 81 40CFR 52.21(j), Subpart A: Compliance Certification
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- 131 91 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 131 92 40CFR 60.7, NSPS Subpart A: Compliance Certification
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- 134 96 40CFR 60.7(d), NSPS Subpart A: Excess emissions report.
- 134 97 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 134 98 40CFR 60.11, NSPS Subpart A: Compliance Certification
- 136 99 40CFR 60.12, NSPS Subpart A: Circumvention.
- 136 100 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 136 101 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 137 102 40CFR 60.14, NSPS Subpart A: Modifications.
- 137 103 40CFR 60.47b, NSPS Subpart Db: Compliance Certification
- 139 104 40CFR 60.48b(f), NSPS Subpart Db: Compliance Certification
- 140 105 40CFR 60.49b, NSPS Subpart Db: Compliance Certification
- 141 106 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification
- 142 107 40CFR 60.334(h)(1), NSPS Subpart GG: Compliance Certification
- 144 108 40CFR 60.334(h)(3), NSPS Subpart GG: Compliance Certification
- 145 109 40CFR 63, Subpart A: Compliance Certification
- 146 110 40CFR 63.11201(b), Subpart JJJJJ: Compliance Certification
- 148 111 40CFR 63.11201(b), Subpart JJJJJ: Compliance Certification
- 150 112 40CFR 63.11205(a), Subpart JJJJJ: Compliance Certification
- 151 113 40CFR 63.11214(c), Subpart JJJJJ: Compliance Certification
- 153 114 40CFR 63.11223(b), Subpart JJJJJ: Compliance Certification
- 155 115 40CFR 63.11223(c), Subpart JJJJJ: Compliance Certification
- 158 116 40CFR 63.11225(a), Subpart JJJJJ: Compliance Certification
- 160 117 40CFR 63.11225(b), Subpart JJJJJ: Compliance Certification
- 162 118 40CFR 63.11225(d), Subpart JJJJJ: Compliance Certification
- 164 119 40CFR 75.20, Subpart C: Compliance Certification
- 165 120 40CFR 97.406, Subpart AAAAA: Compliance Certification
- 166 121 40CFR 97.606, Subpart CCCCC: Compliance Certification

Emission Unit Level

- 167 122 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 168 123 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 178 124 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions

EU=U-00001,EP=E0001

- 179 125 40CFR 52.21(j), Subpart A: Compliance Certification
- 179 126 40CFR 52.21(j), Subpart A: Compliance Certification
- 180 127 40CFR 60.48c(a), NSPS Subpart Dc: Compliance Certification

EU=U-00001,EP=E0001

- 181 128 40CFR 60.334(b), NSPS Subpart GG: CEMS

EU=U-00002,EP=E0002

- 181 129 40CFR 52.21(j), Subpart A: Compliance Certification
- 182 130 40CFR 52.21(j), Subpart A: Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

Facility Level

- 184 131 ECL 19-0301: Contaminant List
- 185 132 6 NYCRR 201-1.4: Malfunctions and Start-up/Shutdown Activities
- 185 133 6 NYCRR 201-6.5 (a): CLCPA Applicability
- 186 134 6 NYCRR 211.1: Air pollution prohibited
- 186 135 6 NYCRR 211.1: Compliance Demonstration

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- 187 136 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 188 137 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 189 138 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 191 139 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 192 140 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 194 141 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 195 142 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 196 143 6 NYCRR 212-2.3 (b): Compliance Demonstration
- 197 144 6 NYCRR 227-1.4: Compliance Demonstration
- 198 145 6 NYCRR 227-1.4 (a): Compliance Demonstration
- 199 146 6 NYCRR 231-1.4: Compliance Demonstration
- 199 147 6 NYCRR 231-1.6: Compliance Demonstration
- 200 148 6 NYCRR 242-1.5: CO2 Budget Trading Program -
Excess emission requirements
- 200 149 6 NYCRR 242-1.5: Compliance Demonstration
- 202 150 6 NYCRR 242-1.5: Compliance Demonstration
- 203 151 6 NYCRR 242-8.5: Compliance Demonstration
- 205 152 6 NYCRR 251.3 (b): Compliance Demonstration
- 206 153 6 NYCRR 251.5: Compliance Demonstration
- 208 154 6 NYCRR 251.6 (d): Compliance Demonstration

NOTE: * preceding the condition number indicates capping.

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FEDERALLY ENFORCEABLE CONDITIONS

Renewal 3/DRAFT

**** Facility Level ****

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

- Item A: Public Access to Recordkeeping for Title V Facilities - 6 NYCRR 201-1.10 (b)**
The Department will make available to the public any permit application, compliance plan, permit, and monitoring and compliance certification report pursuant to Section 503(e) of the Act, except for information entitled to confidential treatment pursuant to 6 NYCRR Part 616 - Public Access to records and Section 114(c) of the Act.
- Item B: Timely Application for the Renewal of Title V Permits - 6 NYCRR 201-6.2 (a) (4)**
Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.
- Item C: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)**
Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.
- Item D: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)**
The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
- Item E: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)**
This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of

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

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

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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 for entire length of Permit**

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

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Condition 2: Fees
Effective for entire length of Permit

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 for entire length of Permit

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 for entire length of Permit

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 reports required by the permit.

Condition 5: Compliance Certification
Effective for entire length of Permit

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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, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 6: Compliance Certification
Effective for entire length of Permit

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

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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certification.

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

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

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

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

The address for the RAPCE is as follows:

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

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY

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Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 The initial report is due 7/30/2022.
 Subsequent reports are due on the same day each year

Condition 7: Compliance Certification
Effective for entire length of Permit

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

Item 7.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: SCR02

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

Item 7.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: AMBIENT AIR MONITORING

Monitoring Description:

The proposed permit modification is to upgrade the

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software for two General Electric LM6000 (Emission Sources GT001 & GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance.

The proposed modification (combustion turbine upgrade) project has a projected actual emission increase which does not equal or exceed the applicable significant project threshold of 2.5 tons/year of NOx or VOC in a severe ozone non-attainment area. As per 6 NYCRR 231-4.1 (b), the baseline selected represents the maximum 24-month period for GT1 and GT2 NOx emissions from the prior 5 years. The projected increases were calculated based on applying the upgrade fuel firing rate increase to the baseline operating hours at ambient temperatures > 46 F and multiplying fuel usage by emission factors for the units. Future operation for the next five years is projected to be less than that for the selected baseline period.

Lower Permit Limit: 46 degrees Fahrenheit

Reference Test Method: EPA Approved Method

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED VALUE - SEE MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 8: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 202-2.1

Item 8.1:

The Compliance Certification activity will be performed for the Facility.

Item 8.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due by April 15th for previous calendar year

Condition 9: Recordkeeping requirements

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Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 9.1:

(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 10: Open Fires - Prohibitions
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 215.2

Item 10.1:

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

Item 10.2

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

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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 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 11: Maintenance of Equipment
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 200.7

Item 11.1:

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 12: Recycling and Salvage
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 12.1:

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 13: Prohibition of Reintroduction of Collected Contaminants to the air
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 201-1.8

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Item 13.1:

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 14: Exempt Sources - Proof of Eligibility
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-3.2 (a)****Item 14.1:**

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 15: Trivial Sources - Proof of Eligibility
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-3.3 (a)****Item 15.1:**

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 16: Requirement to Provide Information
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (4)****Item 16.1:**

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 17: Right to Inspect
Effective for entire length of Permit****Applicable Federal Requirement:6 NYCRR 201-6.4 (a) (8)****Item 17.1:**

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

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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 18: Off Permit Changes
Effective for entire length of Permit**

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

Item 18.1:

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 19: Required Emissions Tests
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 19.1:

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.

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**Condition 20: Accidental release provisions.
Effective for entire length of Permit**

Applicable Federal Requirement:40 CFR Part 68

Item 20.1:

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

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

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

**Condition 21: Recycling and Emissions Reduction
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 82, Subpart F

Item 21.1:

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 22: Emission Unit Definition
Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 22.1:

The facility is authorized to perform regulated processes under this permit for:
Emission Unit: B-OILRS

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Emission Unit Description:

Emission Unit B-OILRS consists of six (6) emergency boilers. These boilers are owned by the Port Authority of New York/New Jersey (PANY/NJ), but operated by Calpine. In the past, these boilers have operated under Certificates to Operate that were issued to the PANY/NJ on November 22, 1995.

The Nitrogen Oxides (NOx) total emissions from the six emergency boilers at the facility is limited to 24 tons per year.

These boilers are used for the production of hot water for the airport terminals; the boilers are operated only in the event of natural gas curtailment or operational issues with the combustion turbines (Emission Sources GT001 and GT002).

The following table provides a summary of pertinent information regarding these boilers:

Emission Source Input Capacity	Emission Point	Heat
HWG01 40 MM Btu/hr	00015	
HWG02 40 MM Btu/hr	00016	
HWG03 40 MM Btu/hr	00017	
HWG04 75 MM Btu/hr	00018	
HWG05 60 MM Btu/hr	00019	
HWG06 60 MM Btu/hr	00020	
Emission Source	Fuels Fired	Start-Up Date
HWG01 1-1-1987	NG, LSDO	

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HWG02 1-1-1956	NG, LSDO
HWG03 1-1-1956	NG, LSDO
HWG04 1-1-1987	NG, LSDO
HWG05 1-1-1961	NG, LSDO
HWG06 1-1-1961	NG, LSDO

LSDO is low sulfur distillate oil.

The six boilers operate on natural gas (Processes BG1 & BG2), and LSDO - low sulfur distillate oil (Processes BD1 & BD2).

Boilers HWG02 & HWG03 are not equipped with an oxygen trim system as an emission control, but Boilers HWG01, HWG04, HWG05 & HWG06 are equipped with an oxygen trim system as an emission control.

Building(s): COGENB

Item 22.2:

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

Emission Unit: U-00001

Emission Unit Description:

Emission Unit U-00001 consists of one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) equipped with a supplemental firing COEN duct burner (Emission Source DB001). The combustion turbine fires natural gas (Processes GT1 & GT5) as a primary fuel and low sulfur distillate oil (Processes GT3 & GT7) as a secondary backup fuel. Processes GT1 & GT3 are with supplemental firing of duct burner and Processes GT5 & GT7 are with no supplemental firing of duct burner. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control. The software for these two General Electric LM6000 combustion turbines (Emission Sources GT001 & GT002) is being upgraded to enhance utilization of the existing

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units' capability for better performance in order to increase the MW output. The proposed Peak Performance ("Throttle Push") upgrade is a controls software upgrade that allows for increased firing temperature in the combustion turbine. This upgrade is expected to yield up to 2.5 MW increase in combustion turbine generator (CTG) output with a 23.3 MM Btu/hr incremental fuel increase.

The upgrade will be available for utilization during natural gas fired operation (Processes GT1 & GT5) when the ambient temperature is greater than 46 degrees F while maintaining compliance with current permit limits at its KIAC Cogen Facility at JFK Airport in Queens. The feature increases the maximum combustion turbine output on high-demand days, so it will only be utilized when the unit is operating at 100% full load (at CTG low pressure turbine inlet temperature > 1595 F). The upgrade will be implemented on each unit, as soon as this minor permit modification is issued and after making the additional generating capacity available to meet peak demand.

Regulatory Applicability Analysis:

The TP upgrade allows for increased fuel firing rate at a higher temperature and greater turbine generator output. The current Title V operating permit does not limit these parameters; the heat input capacity of 469 MM Btu/hr stated in the permit for the combustion turbines is understood to be a nominal rating, and as such may remain unchanged. With the upgrades there will be the potential for a nominal 2.5 MW increase above the full load nominal MW output on each CTG. The current permit does not identify the nominal output of the CTGs, so no change to the permit is needed. The upgrades do not change the emissions performance of the units on a concentration basis, and the increased (MMBtu/hr) firing rate will result in increased mass (lb/hr) emission rates at the conditions where it is applied, but not exceed permit limits. The upgrades are only applied for full load operation of the combustion turbines (Emission Sources GT001 & GT002) at ambient temperatures greater than 46 degrees F.

Building(s): COGENB

Item 22.3:

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

Emission Unit: U-00002

Emission Unit Description:

Emission Unit U-00002 consists of one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source

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GT002) equipped with a supplemental firing COEN duct burner (Emission Source DB002). The combustion turbine fires natural gas (Processes GT2 & GT6) as a primary fuel and low sulfur distillate oil (Processes GT4 & GT8) as a secondary backup fuel. Processes GT2 & GT4 are with supplemental firing of duct burner and Processes GT6 & GT8 are with no supplemental firing of duct burner. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control. The software for these two General Electric LM6000 combustion turbines (Emission Sources GT001 & GT002) is being upgraded to enhance utilization of the existing units' capability for better performance in order to increase the MW output. The proposed Peak Performance ("Throttle Push") upgrade is a controls software upgrade that allows for increased firing temperature in the combustion turbine. This upgrade is expected to yield up to 2.5 MW increase in combustion turbine generator (CTG) output with a 23.3 MM Btu/hr incremental fuel increase.

The upgrade will be available for utilization during natural gas fired operation (Processes GT2 & GT6) when the ambient temperature is greater than 46 degrees F while maintaining compliance with current permit limits at its KIAC Cogen Facility at JFK Airport in Queens. The feature increases the maximum combustion turbine output on high-demand days, so it will only be utilized when the unit is operating at 100% full load (at CTG low pressure turbine inlet temperature >1595 F). The upgrade will be implemented on each unit, as soon as this minor permit modification is issued and after making the additional generating capacity available to meet peak demand.

Building(s): COGENB

**Condition 23: Progress Reports Due Semiannually
Effective for entire length of Permit**

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

Item 23.1:

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

- (i) dates for achieving the activities, milestones, or compliance required in the schedule of

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compliance, and dates when such activities, milestones or compliance were achieved; and

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

**Condition 24: Non Applicable requirements
Effective for entire length of Permit**

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

Item 24.1:

This section contains a summary of those requirements that have been specifically identified as being not applicable to this facility and/or emission units, emission points, processes and/or emission sources within this facility. The summary also includes a justification for classifying any such requirements as non-applicable.

6 NYCRR Subpart 231-2

Reason: The TP upgrade allows for increased fuel firing rate at a higher temperature and greater turbine generator output. With the upgrades there will be the potential for a nominal 2.5 MW increase above the full load nominal MW output on each CTG. The upgrades do not change the emissions performance of the units on a concentration basis, and the increased (MMBtu/hr) firing rate will result in increased mass (lb/hr) emission rates at the conditions where it is applied, but not exceed permit limits. The upgrades are only applied for full load operation of the combustion turbines at ambient temperatures greater than 46 degrees F.

Significant Project Threshold:

The project does not change any permitted emission limits and has an actual emission increase below the Part 231 thresholds of 2.5 tons/yr for NO_x and VOC, and therefore does not trigger New Source Review (NSR) and requires only a Title V minor modification. Because KIAC is an existing major source, the applicable regulations are in Subpart 231-6 (Modifications to Existing Major Facilities in Non-attainment Areas and Attainment Areas of the state within the Ozone Transport Region). According to the 231-6.1 Applicability, the requirements of this Subpart apply to the construction and/or operation of any proposed modification at an existing major facility located in a non-attainment area as follows:

Baseline Emissions:

A period of time used to quantify a credible emission increase. The baseline period consists of any 24 consecutive months within the five years immediately preceding the date of receipt by the Department of the permit application. The baseline (24 months over last 5 years) period of calendar year 2016 and 2017 was selected

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to assure the full 24-months block is within the 5-year period and to include relative high amount of operation and NOx emissions for a conservative analysis.

Operating Hours and their NOx emissions for the last 5 years:

Year	Operating Hours	NOx Emissions(tons)
2015	14,151	74.2
2016	13,864	77.7
2017	12,133	69.0
2018	12,489	72.0
2019	10,852	58.5

The NOx emissions are based on the continuous emissions monitoring systems (CEMS) for the two CTG units. The resulting baseline emissions are 73.4 tpy for NOx and 8.5 tpy for VOC.

Projected Operating Hours and their NOx emissions (based on Calpine dispatch modeling for the units and does not take into account effects of the proposed TP upgrade because the relatively modest heat rate impact of the upgrades on the units and limited expected utilization assure that projections are reliable for post upgrade dispatch) for the next 5 years:

Year	Operating Hours	NOx Emissions (tons)
2020	7,244	
		44.7
2021	8,803	
		54.3
2022	9,353	
		57.7
2023	9,278	57.2
2024	8,262	
		50.9
2025	9,413	
		58.1

Projected Actual Emissions:

Based on the above analysis, the project emission potential, based on a comparison of past actual to projected future actual emissions, does not equal or exceed the applicable significant project thresholds under Part 231 or PSD significant emission rate thresholds. The project is therefore considered a minor modification and is subject to the provisions of section 231-11.2 of Part 231 and provisions of Subpart 201-6 (Title V Facility Permits), for a minor permit modification that does not trigger an NSR major modification.

The Net Emission Increase (NEI) has to be < Significant Emission Increase (SNEIT) of 25 tpy NOx for this project.

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NEI = NOx emissions from Project Emission Potential (PEP)
 =
 NEI = 2.5 tpy = 2.5 tpy < 25 tpy

6 NYCRR 231-2.2 (a)
 Reason: 6 NYCRR 231-2.2 (a):

An application to implement the proposed project would consider:

New Source Review non-Applicability:

A. A project that does not change any permitted emission limits and that has an actual emission increase below the Part 231 thresholds of 2.5 tons/year NOx and VOC does not trigger NSR and requires only a Title V minor modification.

B. A project emission increase in the range of 2.5 to 25 tons/year NOx and VOC would require a netting analysis, but may still not trigger NSR and requires only a Title V modification if the net emissions increase is below 25 tons/year NOx and VOC. Calpine provided the following analysis in support of its application for the project:

C. An applicability determination according to NYCRR Part 231 involving comparison of past actual to projected future actual emissions.

D. Past actual (baseline) emissions will be based on a representative 24-month period from the previous 5 years.

E. Projected future actual emissions will be based on projected operations, but may default to the same operation/demand as for the baseline period, except for the increases associated with the proposed project. Increases due to increased demand would typically be excluded as “could have accommodated” emissions.

Projected Actual Emissions:

Based on the above analysis, the project emission potential, based on a comparison of past actual to projected future actual emissions, does not equal or exceed the applicable significant project thresholds under Part 231 or PSD significant emission rate thresholds. The project is therefore considered a minor modification and is subject to the provisions of section 231-11.2 of Part 231 and

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provisions of Subpart 201-6 (Title V Facility Permits), for a minor permit modification that does not trigger an NSR major modification.

6 NYCRR 231-6.1

Reason: The proposed permit modification is to upgrade the software for two General Electric LM6000 (Emission Sources GT001 & GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance.

The proposed modification (combustion turbine upgrade) project has a projected actual emissions increase which does not equal or exceed the applicable significant project threshold of 2.5 tons/year of NOx or VOC in a severe ozone non-attainment area. The baseline selected represents the maximum 24-month period for GT1 and GT2 NOx emissions from the prior 5 years (contemporaneous period). The projected increases were calculated based on applying the upgrade fuel firing rate increase to the baseline operating hours at ambient temperatures > 46 F and multiplying fuel usage by emission factors for the units. Future operation for the next five years is projected to be less than that for the selected baseline period.

Operating Hours and their NOx emissions for the last 5 years:

Year	Operating Hours	NOx Emissions(tons)
2015	14,151	74.2
2016	13,864	77.7
2017	12,133	69.0
2018	12,489	72.0
2019	10,852	58.5

Projected Operating Hours and their NOx emissions (based on Calpine dispatch modeling for the units and does not take into account effects of the proposed TP upgrade because the relatively modest heat rate impact of the upgrades on the units and limited expected utilization assure that the projections are reasonably reliable for post-upgrade dispatch) for the next 5 years:

Year	Operating Hours	NOx Emissions (tons)
2020	7,244	44.7
2021	8,803	54.3

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2022	9,353	
57.7		
2023	9,278	57.2
2024	8,262	
50.9		
2025	9,413	
58.1		

Because the projected future operation is < the operation associated with the baseline period, the baseline operation was utilized for a conservative basis for calculation of projected actual emissions. Two years of hourly data was collected the 24-month baseline, including operating hours, generation, fuel heat input and NOx emissions. The upgrade will only be implemented when a turbine is operating at full load when the ambient temperature is > 46 degrees F.

40 CFR Part 60, Subpart Dc

Reason: 40 CFR 60 Subpart Dc (NSPS for Small Industrial-Commercial-Institutional Steam Generating Units):

Because the six boilers were constructed before June 9, 1989, these boilers are not subject to 40 CFR 60 Subpart Dc (NSPS for Small Industrial-Commercial-Institutional Steam Generating Units).

40 CFR Part 60, Subpart KKKK

Reason: 40 CFR Part 60, Subpart KKKK:

The applicability of NSPS Subpart KKKK requirements requires two (2) criteria are met: 1) an operational change occurs, and 2) potential hourly emission-rates of regulated pollutants increase. The KIAC combustion turbines TP upgrades may be considered to be a change in operation. The regulated pollutants under Subpart KKKK are SO2 and NOx; therefore, to assess applicability of the second criteria, the potential hourly mass emission rate of SO2 and NOx upon implementation of the TP upgrades must be evaluated to assess whether an increase will occur.

The TP upgrades could increase emissions of NOx from the combustion turbines. However, NOx emissions from the KIAC combustion turbines are controlled by SCRs, and compliance with permit limits is continuously verified with NOx CEMS. Because KIAC can operate the SCRs to maintain current mass emission limits, Calpine is not requesting any increase in potential hourly mass emission rates for NOx. Likewise, Calpine is not seeking an increase in allowable emissions

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of SO₂. Because no increase in the potential hourly emissions of NO_x or SO₂ will occur due to the change in operation associated with the TP upgrades, the requirements of NSPS Subpart KKKK is not triggered.

Under 40 CFR 60.15 (b), "reconstruction" is defined as "the replacement of components of an existing facility to such extent that the fixed capital cost of the new components exceeds 50 % of the fixed capital cost that would be required to construct a compatible new facility". This project is not considered a "reconstruction" because its fixed capital cost for the software upgrade is much less than 50% of the fixed capital cost to construct comparable entirely new combustion turbine units.

In conclusion, this project does not trigger NSPS Subpart KKKK, because the change is neither a modification nor reconstruction.

**Condition 25: Facility Permissible Emissions
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 25.1:

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

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

CAS No: 000630-08-0	PTE: 206,000 pounds per year
Name: CARBON MONOXIDE	
CAS No: 0NY210-00-0	PTE: 1,602,000 pounds per year
Name: OXIDES OF NITROGEN	

**Condition 26: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 26.1:

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

6 NYCRR Subpart 231-2

Item 26.2:

Operation of this facility shall take place in accordance with the approved criteria, emission

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limits, terms, conditions and standards in this permit.

Item 26.3:

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

Item 26.4:

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

Item 26.5:

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

Item 26.6:

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

Emission Unit: B-OILRS Process: BD1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03

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Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 26.7:

Compliance Certification shall include the following monitoring:

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Capping: Yes

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

Monitoring Description:

In order to limit emissions below applicability thresholds for both 40 CFR 52.21 Prevention of Significant Deterioration (PSD) and 6NYCRR Part 231-2 New Source Review (NSR) requirements, annual emissions of Nitrogen Oxides (NOx) from Emission Unit B-OILRS shall not exceed 24 tons per year, on a rolling 12-month basis.

The NOx emissions for each of the six boilers shall be calculated on a monthly basis. Emission calculations shall be based upon the quantity of each fuel burned in the boilers. Monthly emissions shall be calculated for each boiler using the following methodology:

MN = Monthly Emissions of NOx from Boiler when firing Natural Gas (tons/month) = (Q N) (1,020 MMBtu/Mscf) (EF N) [ton / 2000 lb]

Where,

Q N = Quantity of Natural Gas burned in Boiler in Mscf/month,

EF N = the measured NOx emission rate for the Boiler in lb/MMBtu, as determined by the most recent stack test of the boiler or a representative boiler at the facility that has the same equipment manufacturer, make and model number.

MD = Monthly Emissions of NOx from Boiler when firing Light Distillate (tons/month) = (Q L) (135 MMBtu/Kgal) (EF L) [ton / 2000 lb]

Where

Q L = Quantity of Light Distillate burned in Boiler in Kgal / month,

EF L = the measured NOx emission rate for the Boiler in lb/MMBtu, as determined by the most recent stack test of the boiler or a representative boiler at the facility that has the same equipment manufacturer, make and model number.

MT = Total Monthly Emissions of NOx from Boiler = MN + MD

MAll = Total Monthly Emissions of NOx from All Boilers = sum {MT for all boilers}

KIAC shall calculate the total monthly NOx emissions for each boiler (MT) on a monthly basis. The total monthly NOx emissions for each of the six boilers shall be summed to determine the total monthly emissions for all six boilers

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(MAll). A 12-month rolling total of NO_x emissions for all six boilers shall be calculated each month.

Records of monthly NO_x emissions shall be maintained in a permanently bound log or in electronic format. For each month, the record shall contain the amount of each fuel burned in each boiler, total NO_x emissions from each boiler for the month, total NO_x emissions from all boilers, and the 12-month rolling total NO_x emissions from all boilers. Monthly fuel use data will be derived from metering and/or purchase records. This information, including fuel use records, must be kept at the facility for at least five years and must be made available to a representative of the Department upon request during normal business hours.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 27: Capping Monitoring Condition
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 27.1:

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

6 NYCRR Subpart 231-2

Item 27.2:

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

Item 27.3:

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

Item 27.4:

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

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

Item 27.5:

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

Item 27.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002	Emission Point: E0002

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Process: GT4	Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02

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

Item 27.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition applies to the two combustion turbines in
Emission Units U-00001 & U-00002.

The sum of Carbon Monoxide emissions from Emission Units
U-00001 and U-00002 shall not equal or exceed the
following:

106,270 pounds per year (53.14 tons per year).

To demonstrate compliance, the facility is required to
maintain monthly calculations records of the amount of
fuel (natural gas and distillate fuel oil) burned for at
least five years.

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 53.14 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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**Condition 28: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 28.1:

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

6 NYCRR Subpart 231-2

Item 28.2:

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

Item 28.3:

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

Item 28.4:

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

Item 28.5:

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

Item 28.6:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001

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Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

This condition applies to the two combustion turbines in
Emission Units U-00001 & U-00002.

The sum of Oxides of Nitrogen emissions from Emission
Units U-00001 and U-00002 shall not equal or exceed the
following:

360,329 pounds per year (180.2 tons per year).

To demonstrate compliance, the facility is required to
maintain monthly calculations records of the amount of
fuel (natural gas and distillate fuel oil) burned for at
least five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 180.2 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 29: Capping Monitoring Condition
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 29.1:

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

40 CFR 52.21 (j)

Item 29.2:

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

Item 29.3:

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

Item 29.4:

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

Item 29.5:

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

Item 29.6:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: DB001
Emission Unit: U-00002	Emission Point: E0002
Process: GT2	Emission Source: DB002
Regulated Contaminant(s):	
CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 29.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners, Emission Sources DB001 & DB002). Each of the two duct burners is limited to a maximum combined gross heat input of 249 MM BTU/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 MM BTU/hr limit for each of the two duct burners.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NATURAL GAS

Manufacturer Name/Model Number: COEN LoNOx Lo CO

Upper Permit Limit: 1034 million cubic feet per year

Reference Test Method: Keep Fuel Records

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

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Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 12 calendar month(s).

Condition 30: Prohibitions
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 202-1.5

Item 30.1:

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

Condition 31: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 202-2

Item 31.1:

The Compliance Certification activity will be performed for the Facility.

Item 31.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The provisions of 6NYCRR Subpart 202-2 apply to this facility. Any owner or operator of a facility in a nonattainment area for ozone must submit an emission statement to the department for any calendar year in which the facility has the potential to emit any regulated air pollutant listed in Table 1 of 6NYCRR 202-2.1, at a rate which equals or exceeds the applicable threshold:

Table

1

Facility Reporting Thresholds - Nonattainment Areas

Air Contaminant (tons/year)	Threshold
Volatile organic Compounds (VOC)	25
Oxides of Nitrogen (NOx)	25
Carbon Monoxide (CO)	100
Sulfur Dioxide (SO2)	100
Particulate Matter, diameters less than 10 microns (PM10)	100
Lead and its compounds	

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(measured as elemental lead)	5
Any one hazardous air pollutants	10
Combination of hazardous air pollutants	25
Any other regulated air pollutant	100

Reference Test Method: KEEP RECORDS
 Monitoring Frequency: QUARTERLY
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 12 calendar month(s).

Condition 32: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 207.2

Item 32.1:

The Compliance Certification activity will be performed for the Facility.

Item 32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any person who owns a significant air contamination source, as defined by §207.1, shall submit a proposed episode action plan to the department within 90 days of NYSDEC's request to provide such a plan. The plan shall contain detailed steps which will be taken by the air contamination source owner to reduce air contaminant emissions during each stage of an air pollution episode.

Any proposed modification of an approved episode action plan to accommodate advances in technology or knowledge of contaminant effects shall be submitted to the department within 90 days of the request by the department's representative. The department may issue an episode action plan to any person who fails to submit an acceptable plan or plan modification within the required time when so requested.

Upon petition, within 60 days of approval or issue of an episode action plan, the department shall grant a hearing to the significant air contamination source owner at a time and place as determined by the department.

An owner of a significant air contamination source shall make his episode action plan available at a convenient location on his premises for review by the department's representative, at any time.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 33: Visible Emissions Limited
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 211.2

Item 33.1:

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 34: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR 225-1.2

Item 34.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

No person will sell, offer for sale, purchase, or fire any fuel which exceeds the sulfur-in-fuel limitations stated below.

In order to ensure compliance with the requirements of §225-1.5(b)(2) and §225-1.6, the facility will perform the following activities for low sulfur distillate oil:

1. KIAC shall maintain fuel supplier certifications received for each delivery of low sulfur distillate oil. These certifications shall reflect the sulfur content, specific gravity, and heating value of the low sulfur distillate oil; or
2. KIAC shall sample every delivery of low sulfur distillate oil received at the facility. KIAC shall determine the percent sulfur by weight using Method ASTM D-2622 or other methods approved in advance by the Department; or

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3. KIAC shall sample from the unit's storage tank after each addition of fuel oil to the tank for monitoring the sulfur content. KIAC shall determine the percent sulfur by weight using Method ASTM D-2622 or other methods approved in advance by the Department.

4. Data collected pursuant to (1), (2), or (3) 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, and indicate the method being used to achieve compliance. If there is an exceedance of the sulfur-in-fuel limitation, KIAC shall submit to the DEC a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place. All records must be maintained at the facility for a minimum of five years.

In lieu of CEMS for SO₂, the compliance demonstration methodology for the gas turbines (Emission Sources GT001 & GT002), relies upon Part 225-1.5(b)(2), which provides for "representative sampling and sulfur analysis conducted in a manner approved by the Department".

KIAC primarily uses natural gas for the operation of the two combustion turbines and their associated duct burners, and very infrequently uses distillate fuel oil for the two combustion turbines. But KIAC's contract with NYISO requires that Calpine maintains the ability to have dual fuel capability in the event of natural gas shortages or emergencies.

The two combustion turbines and six emergency boilers at KIAC use the low sulfur distillate oil that is considered to be jet fuel and is supplied by the Kennedy Airport and is the same fuel that is utilized by the airport for fueling airplanes and does not meet the 0.0015 percent sulfur limitation according to 6 NYCRR 225-1.2.

The jet fuel is supplied to the KIAC Energy Center via an underground pipeline owned by the Port Authority of NY/NJ. The facility has reviewed the sulfur in fuel data for the liquid jet fuel received from the airport and used by the airplanes and also by KIAC in their two combustion turbines and six emergency boilers; the current average sulfur content of the low sulfur distillate oil is 0.074%, and the maximum sulfur content is 0.091%.

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As the jet fuel used at KIAC is supplied via pipeline, the facility is required to maintain the collection/analysis of the fuel oil sample each time the fuel is delivered.

The KIAC Energy Center is located in the middle of a very congested hub at the Kennedy Airport, adjacent to Terminal 7. There is no space for additional tankage and no ability to install a new off-loading facility. Because of the safety considerations associated with refueling the tanks via trucks at a location within the airport, the Department will allow KIAC to continue to utilize the existing source of low sulfur distillate oil (jet fuel with a maximum sulfur content is 0.091%) for its operation.

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL
 Process Material: NUMBER 1 OIL
 Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 0.091 percent by weight
 Monitoring Frequency: PER DELIVERY
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 35: Compliance Certification
Effective for entire length of Permit

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

Item 35.1:

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

Emission Unit: B-OILRS Process: BD1	Emission Source: HWG01
Emission Unit: B-OILRS Process: BD1	Emission Source: HWG02
Emission Unit: B-OILRS Process: BD1	Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Source: HWG04

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Emission Unit: B-OILRS Process: BD1	Emission Source: HWG05
Emission Unit: B-OILRS Process: BD1	Emission Source: HWG06
Emission Unit: B-OILRS Process: BD2	Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Source: HWG06

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

Item 35.2:

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 low sulfur distillate oil are limited to the firing of low sulfur 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. Alternatively, Calpine may sample from the uniy's storage tank after each addition of fuel oil to the tank for monitoring the sulfur content.

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. Such records and summaries shall indicate the method used to achieve compliance and include the sampling results.

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

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

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

Applicable Federal Requirement: 6 NYCRR 225-1.5 (c)

Item 36.1:

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

Emission Unit: U-00001

Emission Unit: U-00002

Item 36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This condition applies to the two combustion turbines in Emission Units U-00001 & U-00002.

The facility shall monitor continuously and determine daily:

1. The average hourly rate of each fuel burned,
2. The average hourly electrical output,
3. The minimum and maximum hourly generation rate.

The requirement to monitor the gross heating content and ash content of each fuel fired at least once per week is waived.

At the request of NYSDEC, the facility shall submit a written report of excess emissions semi-annually and the nature and cause of the excessive emissions if known. The facility shall retain records and summaries for at least

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five years, and upon the request of NYSDEC shall furnish such records and summaries.

Reference Test Method: Keep Records
 Monitoring Frequency: DAILY
 Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 37: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 225-1.6

Item 37.1:

The Compliance Certification activity will be performed for the Facility.

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

Item 37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:
 §225-1.6 Reports, sampling, and analysis.

(a) The department will require fuel analyses, information on the quantity of fuel received, fired or sold, and results of stack sampling, stack monitoring, and other procedures to ensure compliance with the provisions of this Subpart.

(b) (1) Any person who sells oil and/or coal must retain, for at least five years, records containing the following information:

(i) fuel analyses and data on the quantities of all oil and coal received; and

(ii) the names of all purchasers, fuel analyses, and data on the quantities of all oil and coal sold.

(2) Such fuel analyses must contain, as a minimum:

(i) data on the sulfur content, ash content, specific gravity, and heating value of residual oil;

(ii) data on the sulfur content, specific gravity, and heating value of low sulfur distillate oil; and

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(iii) data on the sulfur content, ash content, and heating value of coal.

(c) Sampling, compositing, and analysis of fuel samples must be done in accordance with methods acceptable to the department.

(d) Facility owners or fuel distributors required to maintain and retain records pursuant to this Subpart must make such records available for inspection by the department.

(e) 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.

(f) Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

Monitoring Frequency: PER DELIVERY
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 38: Compliance Certification
Effective for entire length of Permit

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

Item 38.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: DB001
Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: GT001

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Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: SCR02

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

Item 38.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The Compliance Certification applies to the two combustion turbines when firing natural gas.

No person shall operate a stationary combustion installation which exhibits greater than 20 percent opacity (six minute average), except for one-six-minute period per hour of not more than 27 percent opacity. The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct daily observations of visible emissions from the emission unit, process, etc. to which this condition applies while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

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The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the Method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Monitoring Frequency: SEMI-ANNUALLY
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 39: Compliance Certification
Effective for entire length of Permit

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

Item 39.1:

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

Emission Unit: B-OILRS Process: BD1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD1	Emission Point: 00019 Emission Source: HWG05

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below while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Monitoring Frequency: SEMI-ANNUALLY
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 40: Compliance Certification
Effective for entire length of Permit

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

Item 40.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: DB001
Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: SCR01
Emission Unit: U-00001	Emission Point: E0001

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Process: GT7	Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02

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

Item 40.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The Compliance Certification applies to the two combustion turbines when firing low sulfur distillate oil.

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

The Department reserves the right to perform or require the performance of a Method 9 opacity evaluation at any time during facility operation.

The permittee will conduct daily observations of visible emissions from the emission unit, process, etc. to which this condition applies while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard.

The permittee shall investigate the cause, make any

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necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the Method 9 test indicates that the opacity standard is not met.

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 41: Compliance Certification
Effective for entire length of Permit

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

Item 41.1:

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

- | | |
|------------------------|-----------------------|
| Emission Unit: U-00001 | Emission Point: E0001 |
| Emission Unit: U-00002 | Emission Point: E0002 |

Item 41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

For stack monitoring and recordkeeping requirements, the owner/operator of this facility shall record and maintain measurements and operations data as required by the commissioner.

Reference Test Method: KEEP RECORDS
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 42: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-1.7

Item 42.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02

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

Item 42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING
 Monitoring Description:
 Particulate Matter emission limit of 0.1 lb/MM

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BTU.

KIAC is required to conduct the two-hour average emission of particulates from a particular combustion turbine only if it operates on the low sulfur distillate oil (Processes GT3, GT4, GT7 & GT8) for operational purposes, as opposed to testing purposes, during the term of the permit.

Parameter Monitored: PARTICULATES
 Upper Permit Limit: 0.1 pounds per million Btus
 Reference Test Method: METHOD 5
 Monitoring Frequency: Once every five years
 Averaging Method: 2-HOUR AVERAGE
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 43: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-1.7

Item 43.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001

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Condition 44: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-1.7

Item 44.1:

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

Emission Unit: B-OILRS Process: BD1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG1	Emission Point: 00016 Emission Source: HWG02

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Emission Unit: B-OILRS Process: BG1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Item 44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

KIAC Cogeneration Plant at JFK Airport will keep records concerning fuel usage, emissions, and any pertinent data associated with all combustion installations and KIAC shall provide this data and emissions data when requested by the NYSDEC. Sampling, compositing and analysis of fuel samples shall be carried out in accordance with the most recent ASTM standard methods acceptable to NYSDEC.

Reference Test Method: ASTM Methods

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 45: Compliance Certification
Effective for entire length of Permit**

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

Item 45.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02

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:

This condition applies to the two 469 MM Btu/hr each GE LM 6000 PC SPRINT combustion turbine/HRSG units (Emission Sources GT001 & GT002) firing low sulfur distillate oil (Processes GT3 & GT4) with its corresponding duct burner (Emission Controls DB001 & DB002), and low sulfur distillate oil (Processes GT7 & GT8) without its corresponding duct burner and is applicable beginning July

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1, 2014. The owner or operator shall submit a testing protocol to the Department for approval, a minimum of 30 days prior to the stack testing.

(3) For all combustion turbines that operate after July 1, 2014, the owner or operator of a combustion turbine with a maximum heat input rate of 10 million Btu per hour or greater must submit a proposal for RACT to be implemented that includes descriptions of:

(i) the available NO_x control technologies, the projected effectiveness of the technologies considered, and the costs for installation and operation for each of the technologies; and

(ii) the technology and the appropriate emission limit selected as RACT considering the costs for installation and operation of the technology.

The two 469 MM Btu/hr each GE LM 6000 PC SPRINT combustion turbine/HRSG units (Emission Sources GT001 & GT002) operate with or without their corresponding two duct burners (Emission Controls DB001 & DB002; respectively) in Emission Units U-00001 & U-00002.

The proposed NO_x RACT limit is 18.0 parts per million by volume (dry, corrected to 15% O₂) for the combined cycle combustion turbines (Emission Sources GT001 & GT002) firing low sulfur distillate oil (Processes GT3 & GT4) with their corresponding duct burner (Emission Control DB001 & DB002) and (Processes GT7 & GT8) without its corresponding duct burner in Emission Units U-00001 & U-00002.

For combustion turbines with or without a duct burner, compliance with the NO_x emission limit of 18.0 parts per million by volume (dry, corrected to 15% O₂) when firing low sulfur distillate oil (Processes GT3, GT4, GT7 & GT8), will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its corresponding combustion turbine.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing. Compliance with these emission limits shall be determined in accordance with section 227-2.6(a)(4) of this Subpart. Units determining compliance under section 227-2.6(a)(4) of this Subpart may opt to utilize CEMS under the provisions of section 227-2.6(b) of this Subpart apply,

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including the use of a 24 hour daily average (arithmetic mean).

The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG is required to control NOx emissions. In lieu of using water steam injection to control NOx emissions, the facility has chosen Continuous Emissions Monitoring System (CEMS) to monitor NOx and O2 on the duct burners/turbines associated with the combustion gas turbine in accordance with 40 CFR 60 Subpart GG, and with 6 NYCRR 227-2.6(a)(4) and (b).

Compliance with this emission limit must be determined with a 24 hour daily average (arithmetic mean) when the owner or operator chooses to use a CEMS under the provisions of section 227-2.6(b) of this Subpart.

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

Manufacturer Name/Model Number: CEMS for NOx and O2

Upper Permit Limit: 18.0 parts per million by volume
(dry, corrected to 15% O2)

Reference Test Method: 40 CFR Appendices B & F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 46: Compliance Certification
Effective for entire length of Permit**

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

Item 46.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: DB001
Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: SCR01
Emission Unit: U-00001	Emission Point: E0001

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Process: GT5	Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: SCR02

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

This condition applies to the two 469 MM Btu/hr each GE LM 6000 PC SPRINT combustion turbine/HRSG units (Emission Sources GT001 & GT002) firing natural gas (Processes GT1 & GT2) with its corresponding duct burner (Emission Controls DB001 & DB002), and firing natural gas (Processes GT5 & GT6) without its corresponding duct burner and is applicable beginning July 1, 2014. The owner or operator shall submit a testing protocol to the Department for approval, a minimum of 30 days prior to the stack testing.

(3) For all combustion turbines that operate after July 1, 2014, the owner or operator of a combustion turbine with a maximum heat input rate of 10 million Btu per hour or greater must submit a proposal for RACT to be implemented that includes descriptions of:

(i) the available NOx control technologies, the projected effectiveness of the technologies considered, and the costs for installation and operation for each of the technologies; and

(ii) the technology and the appropriate emission limit selected as RACT considering the costs for installation

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and operation of the technology.

The two 469 MM Btu/hr each GE LM 6000 PC SPRINT combustion turbine/HRSG units (Emission Sources GT001 & GT002) operate with or without their corresponding two duct burners (Emission Controls DB001 & DB002; respectively) in Emission Units U-00001 & U-00002.

The proposed NO_x RACT limit is 9.0 parts per million by volume (dry, corrected to 15% O₂) for the combined cycle combustion turbines (Emission Sources GT001 & GT002) firing natural gas (Processes GT1 & GT2) with their corresponding duct burner (Emission Control DB001 & DB002) and (Processes GT5 & GT6) without its corresponding duct burner in Emission Units U-00001 & U-00002.

For combustion turbines with or without a duct burner, compliance with the NO_x emission limit of 9.0 parts per million by volume (dry, corrected to 15% O₂) when firing gas (Processes GT1, GT2, GT5 & GT6), will be based on the combination of the combustion turbine and the duct burner when both fire, and the combustion turbine alone when not duct-firing. The duct burner will never operate without its corresponding combustion turbine.

For units with a duct burner, compliance will be based on the combination of the turbine and the duct burner when both fire, and the turbine alone when not duct firing. Compliance with these emission limits shall be determined in accordance with section 227-2.6(a)(4) of this Subpart. Units determining compliance under section 227-2.6(a)(4) of this Subpart may opt to utilize CEMS under the provisions of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour daily average (arithmetic mean).

The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG is required to control NO_x emissions. In lieu of using water steam injection to control NO_x emissions, the facility has chosen Continuous Emissions Monitoring System (CEMS) to monitor NO_x and O₂ on the duct burners/turbines associated with the combustion gas turbine in accordance with 40 CFR 60 Subpart GG, and with 6 NYCRR 227-2.6(a)(2) and (b).

Compliance with this emission limit must be determined with a 24 hour daily average (arithmetic mean) when the owner or operator chooses to use a CEMS under the provisions of section 227-2.6(b) of this Subpart.

All records used to determine compliance with the

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

Manufacturer Name/Model Number: CEMS for NOx and CO2
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 9.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Appendices B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 47: Compliance Certification
 Effective for entire length of Permit**

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

Item 47.1:

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

Emission Unit: B-OILRS Process: BD1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03

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Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

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

Item 47.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: MONITORING OF PROCESS OR CONTROL

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DEVICE PARAMETERS AS SURROGATE

Monitoring Description:

On May 15, 2017, the facility submitted a NO_x RACT evaluation that fulfilled the criteria of §227-2.5(c) and DAR- 20 ("Economic and Technical Analysis for Reasonably Available Control Technology Networks") for the six mid-size emergency boilers (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06). The evaluation was based upon stack test results provided in an emission test report dated February 22, 2017. The analysis concluded that no NO_x control technologies were economically feasible for these six emergency boilers at the facility.

The NYSDEC has granted a variance from the presumptive RACT emission rate specified in §227-2.4(c)(1)(ii) for each of the six mid-size emergency boilers. Emission limitations (lb NO_x/MMBtu of heat input) and source testing requirements are described in other permit conditions.

In order to maintain compliance with the Part 227-2 NO_x RACT requirements for the six emergency boilers (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 and HWG06), the total annual emissions of Nitrogen Oxides (NO_x) from Emission Unit B-OILRS shall not exceed 24 tons per year, on a rolling 12-month basis.

The NO_x emissions for each of the six boilers shall be calculated on a monthly basis. Emission calculations shall be based upon the quantity of each fuel burned in the boilers. Monthly emissions shall be calculated for each boiler using the following methodology:

M N = Monthly Emissions of NO_x from Boiler when firing Natural Gas (tons/month) = (Q N) (1020 MMBtu/Mscf) (EF N) [ton / 2000 lb]

Where,

Q N = Quantity of Natural Gas burned in Boiler in Mscf/month,

EF N = the measured NO_x emission rate for the Boiler in lb/MMBtu, as determined by the most recent test of the boiler or a representative boiler at the facility that has the same equipment manufacturer, make and model number.

M D = Monthly Emissions of NO_x from Boiler when firing Low Sulfur Distillate Oil (tons/month) = (Q L) (135 MMBtu/Kgal) (EF L) [ton / 2000 lb]

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Where

Q L = Quantity of Low Sulfur Distillate Oil burned in Boiler in Kgal / month,

EF L = the measured NO_x emission rate for the Boiler in lb/MMBtu, as determined by the most recent test of the boiler or a representative boiler at the facility that has the same equipment manufacturer, make and model number.

M T = Total Monthly Emissions of NO_x from Boiler = M N + M D

M All = Total Monthly Emissions of NO_x from All Boilers = sum {M T for all boilers }

KIAC shall calculate the total monthly NO_x emissions for each boiler (M T) on a monthly basis. The total monthly NO_x emissions for each of the six boilers shall be summed to determine the total monthly emissions for all six boilers (M All). A 12-month rolling total of NO_x emissions for all six boilers shall be calculated each month.

Records of monthly NO_x emissions shall be maintained in a permanently bound log or in electronic format. For each month, the record shall contain the amount of each fuel burned in each boiler, total NO_x emissions from each boiler for the month, total NO_x emissions from all boilers, and the 12-month rolling total NO_x emissions from all boilers. Monthly fuel use data will be derived from metering and/or purchase records. This information, including fuel use records, must be kept at the facility for at least five years and must be made available to a representative of the Department upon request during normal business hours.

The RACT determination shall be re-evaluated once per permit term, or prior to any changes that could significantly impact the existing approved or pending RACT evaluation. The next re-evaluation shall be submitted no later than May 15, 2022.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 24 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 48: Compliance Certification
Effective for entire length of Permit**

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Facility DEC ID: 2630800096

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

Item 48.1:

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

Emission Unit: B-OILRS Process: BD1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06

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

Item 48.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Calpine JFK Energy Center (KIAC) shall conduct NOx emission testing of the six mid-size boilers, (Emission

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Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06), to verify compliance with an emission limit of 0.25 lb NO_x/MMBtu of heat input while firing distillate oil. This emission limitation is based upon a Part 227-2 NO_x RACT Evaluation for the six boilers that was submitted in May 2017.

Once every five (5) years, the facility shall conduct NO_x emission testing to verify that the actual NO_x emissions from a particular boiler are less than or equal to 0.25 pounds of NO_x per million Btus, while firing low sulfur distillate oil, if that boiler fires oil for operational purposes, as opposed to testing purposes during the term of the permit. If more than four of the boilers fire low sulfur distillate oil for operational purposes, as opposed to testing purposes, during the term of the permit, emission testing may be conducted on four boilers that are selected to be representative of all boilers based upon equipment manufacturer, make and model number. To satisfy the emission test requirements of 6 NYCRR 227-2.6 (c), the owner or operator of an emission source required to conduct an emission test under 6 NYCRR 227-2.6 (a) of this section must:

(1) submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and

(2) follow the procedures set forth in 6 NYCRR 202 and use the following procedures set forth in 40 CFR part 60, appendix A, or any other method acceptable to the department and the administrator for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart:

(i) for mid-size boilers, use method 7, 7E, or 19 from 40 CFR part 60, appendix A;

(3) submit a compliance test report containing the results of the emission test to the department for approval no later than 60 days after completion of the emission test.

Regulation 6 NYCRR 227-2.5 (c) provides for the NYSDEC to set a higher emission limit (variance or alternative) if it can be demonstrated that the presumptive RACT emission limit in Part 227-2.4 are not economically or technically feasible.

The RACT determination shall be re-evaluated once per

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permit term, or prior to any changes that could significantly impact the existing approved or pending RACT evaluation. The next re-evaluation shall be submitted no later than May 15, 2022.

Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 0.25 pounds per million Btus
 Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 19
 Monitoring Frequency: Once every five years
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 49: Compliance Certification
 Effective for entire length of Permit**

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

Item 49.1:

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

Emission Unit: B-OILRS Process: BG1	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG1	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04

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Emission Unit: B-OILRS
 Process: BG2

Emission Point: 00019
 Emission Source: HWG05

Emission Unit: B-OILRS
 Process: BG2

Emission Point: 00020
 Emission Source: HWG06

Regulated Contaminant(s):

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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Calpine JFK Energy Center (KIAC) shall conduct NO_x emission testing of the six mid-size boilers, (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06), to verify compliance with the alternative emission limit of 0.15 lb NO_x/MMBtu of heat input while firing natural gas. This emission limitation is based upon a Part 227-2 NO_x RACT Evaluation for the six boilers that was submitted in May 2017. All six boilers operate on natural gas (Processes BG1 & BG2) and on aviation-grade kerosene - AGK and jet fuel or #2 light distillate fuel oil - #2 fuel oil (Processes BD1 & BD2).

Once every five (5) years, the facility shall conduct NO_x emission testing to verify that the actual NO_x emissions from the boilers are less than or equal to 0.15 pounds of NO_x per million Btus, while firing natural gas. Emission testing shall be conducted on four boilers that are selected to be representative of all boilers based upon equipment manufacturer, make and model number. To satisfy the emission test requirements of 6 NYCRR 227-2.6 (c), the owner or operator of an emission source required to conduct an emission test under 6 NYCRR 227-2.6 (a) of this section must:

(1) submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and

(2) follow the procedures set forth in 6 NYCRR 202 and use the following procedures set forth in 40 CFR part 60, appendix A, or any other method acceptable to the department and the administrator for determining compliance with the appropriate NO_x limit in section 227-2.4 of this Subpart:

(i) for mid-size boilers, use method 7, 7E, or 19 from 40

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CFR part 60, appendix A;

(3) submit a compliance test report containing the results of the emission test to the department for approval no later than 60 days after completion of the emission test.

Regulation 6 NYCRR 227-2.5 (c) provides for the NYSDEC to set a higher emission limit (variance or alternative) if it can be demonstrated that the presumptive RACT emission limit in Part 227-2.4 are not economically or technically feasible.

The RACT determination shall be re-evaluated once per permit term, or prior to any changes that could significantly impact the existing approved or pending RACT evaluation. The next re-evaluation shall be submitted no later than May 15, 2022.

Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 0.15 pounds per million Btus
 Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 19
 Monitoring Frequency: Once every five years
 Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED
 Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 50: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227-2.6

Item 50.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002	Emission Point: E0002

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Process: GT4 Emission Source: DB002

Emission Unit: U-00002 Emission Point: E0002
 Process: GT6 Emission Source: GT002

Emission Unit: U-00002 Emission Point: E0002
 Process: GT8 Emission Source: GT002

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

Item 50.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of combined cycle combination turbines with a maximum heat input rates greater than 250 million Btu per hour shall utilize CEMS as described in subdivision (b) of this section.

The owner/operator of simple cycle, regenerative combustion turbines and combined cycle combustion turbines with a maximum heat input rates of 250 million Btu per hour or less shall perform stack tests as described in subdivision (c) of this section.

The owner/operator of a NOx source subject to section 227-2.4(g) of this Subpart shall submit a proposal, subject to approval by the department and EPA, for the testing, monitoring, and reporting of NOx emissions, and such standards shall be consistent with applicable requirements for sources regulated under this Subpart with comparable BTU ratings.

Monitoring Frequency: CONTINUOUS
 Reporting Requirements: ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 12 calendar month(s).

**Condition 51: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a)

Item 51.1:

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

Emission Unit: U-00001 Emission Point: E0001
 Process: GT1 Emission Source: DB001

Emission Unit: U-00001 Emission Point: E0001

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Process: GT1	Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002

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

Item 51.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For any combined cycle combustion turbine having a maximum heat input rate greater than 250 mmBTU/hr, NO_x emissions must be measured with a CEMS as described in 6 NYCRR 227-2.6 (b).

Monitoring Frequency: CONTINUOUS

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 52: Compliance Certification
Effective for entire length of Permit

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Applicable Federal Requirement:6 NYCRR 227-2.6 (b)

Item 52.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

This facility is required to comply with the testing, monitoring, and reporting requirements of 6 NYCRR 227-2.6 (b) (3) and 227-2.6 (b) (4).

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RATA shall be performed and the results shall be reported in the format of Appendix F (or equivalent).

Following each calendar quarter, the owner or operator must tabulate and summarize applicable emissions, monitoring, and operating parameter measurements recorded during the preceding three months (including but not limited to type and amount of fuel burned on a daily basis, heat content of the fuel, total heating value of the fuel consumed on a daily basis, the actual NOx emission rate, the allowable NOx emission rate, and the summation of the emission sources included in a system averaging plan). These records must be submitted to the department within 30 days following the end of each calendar quarter in a format acceptable to the department and must include:

- (a) the average NOx emission rates as specified under 6 NYCRR 227-2.6(b)(3) of this section;
- (b) identification of the operating hours when NOx emissions data are not included in the calculation of the average emission rate and the reasons for not including that data; and
- (c) the results of accuracy assessments as required by 40 CFR part 60, Appendix F and any additional data quality information required by the department.

Reference Test Method: 40 CFR Part 60 Appendix F
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 53: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)

Item 53.1:

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

- | | |
|------------------------|------------------------|
| Emission Unit: B-OILRS | Emission Point: 00015 |
| Process: BD1 | Emission Source: HWG01 |
| Emission Unit: B-OILRS | Emission Point: 00016 |
| Process: BD1 | Emission Source: HWG02 |

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Emission Unit: B-OILRS Process: BD1	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD1	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD1	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD1	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06

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

Item 53.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

At the monitoring frequency stated below the facility shall perform the following:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
- 2) Perform a stack test, based upon the approved test

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protocol, to determine compliance with the particulate emission limit cited in this condition.

3) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.

4) Facility shall keep records of all testing done at this stationary combustion installation for a period of 5 years.

Records shall be maintained at the facility for a minimum of five (5) years.

KIAC is required to conduct the two hour average emission of particulates from a particular boiler only if the particular boiler (HWG - hot water generator) fires jet fuel (# 1 distillate oil) - Processes BD1 or BD2 for operational purposes, as opposed to testing purposes during the term of the permit.

Also, the requirement to test applies on a particular boiler basis, rather than collectively.

The Particulate Emission Testing is required "Only if liquid fuel is burned during the term of the permit."

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: Once every five years

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

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 54: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 227.2 (b) (1)

Item 54.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: GT3

Emission Point: E0001
Emission Source: DB001

Emission Unit: U-00001
Process: GT3

Emission Point: E0001
Emission Source: GT001

Emission Unit: U-00001
Process: GT3

Emission Point: E0001
Emission Source: SCR01

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Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02

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

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The two hour average emission of particulates from this stationary combustion installation shall not exceed 0.10 pounds per million Btu of heat input.

At the monitoring frequency stated below the facility shall perform the following:

- 1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.
- 2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.
- 3) Submit an acceptable stack test report that outlines the results obtained from the testing done to meet the requirement of #2 above.
- 4) Facility shall keep records of all testing done at this stationary combustion installation for a period of 5

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years.

Normally, the two combustion turbines (Emission Sources GT001 & GT002) operate on natural gas (Processes GT1, GT2, GT5 & GT6). In very rare occasions, the two combustion turbines operate on low sulfur distillate oil (Processes GT3, GT4, GT7 & GT8). KIAC is required to conduct the two hour average emission of particulates from a particular stationary combustion installation only if the particular turbine fires low sulfur distillate oil (Processes GT3, GT4, GT7 or GT8) for operational purposes, as opposed to testing purposes during the term of the permit.

Also, the requirement to test applies on an individual turbine basis, rather than collectively.

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA Method 5

Monitoring Frequency: Once every five years

Averaging Method: AVERAGING METHOD - SEE MONITORING

DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 55: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 55.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: GT001

Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: SCR01

Emission Unit: U-00002	Emission Point: E0002
Process: GT8	Emission Source: GT002

Emission Unit: U-00002	Emission Point: E0002
Process: GT8	Emission Source: SCR02

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

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

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Facility DEC ID: 2630800096

Emission Unit: U-00002
 Process: GT6

Emission Point: E0002
 Emission Source: SCR02

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

Item 56.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The NOx emissions are limited to 16.1 pounds per hour, on an hourly average basis during natural gas firing in the combustion turbine and no duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the NOx emissions from the combustion turbine/HRSG without duct burner unit, during light distillate firing in the combustion turbine and no duct burner unit.

KIAC will use CEMS to continuously monitor the NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 16.1 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 57: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 57.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
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:

The CO emissions are limited to 8.0 pounds per hour, on an hourly average basis during distillate oil firing in the combustion turbine/HRSG and natural gas firing in the duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the CO emissions from the combustion turbine/HRSG and duct burner units during light distillate fuel oil firing in the combustion turbine/HRSG and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission at the stack.

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

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years.

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 8.0 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 58: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 58.1:

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

Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 000630-08-0 CARBON MONOXIDE	

Item 58.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The CO emissions are limited to 5.2 pounds per hour, on an hourly average basis during natural gas firing in the combustion turbine and no duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

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CEMS are to be used to monitor CO emissions from the combustion turbine/HRSG without duct burner unit during natural gas firing in the combustion turbine and no duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 5.2 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 59: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 59.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: SCR01
Emission Unit: U-00002	Emission Point: E0002
Process: GT8	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT8	Emission Source: SCR02

Regulated Contaminant(s):
 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:

In order to satisfy the requirements of 6 NYCRR 231-2.7

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(b) and 6 NYCRR 227-2.4(e)(2), the NO_x emissions are limited to 18.0 parts per million by volume (dry, corrected to 15% O₂), on an hourly average basis during distillate oil firing in the combustion turbine and no duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b). Based upon a NO_x RACT Compliance Plan dated November, 2012, these operational limits shall constitute RACT for purposes of 6 NYCRR 227-2.4(e)(2).

CEMS are to be used to monitor the NO_x emissions from the combustion turbine without the duct burner unit during light distillate fuel oil firing in the combustion turbine and no duct burner unit.

KIAC will use CEMS to continuously monitor the NO_x emission at the stack.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 18.0 parts per million by volume
(dry, corrected to 15% O₂)
Reference Test Method: 40 CFR Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 60: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 60.1:

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

Emission Unit: U-00001
Process: GT3

Emission Point: E0001
Emission Source: DB001

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Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02

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:

The NOx emissions are limited to 36.46 pounds per hour, on an hourly average basis during distillate oil firing in the combustion turbine and natural gas firing in the duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the NOx emissions from the combustion turbine/HRSG and duct burner units during low sulfur distillate oil firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 36.46 pounds per hour

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 61: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 61.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The NOx emissions are limited to 20.08 pounds per hour, on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

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CEMS are to be used to monitor the NO_x emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the NO_x emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 20.08 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 62: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 62.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: DB001
Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: SCR01
Emission Unit: U-00002	Emission Point: E0002
Process: GT2	Emission Source: DB002
Emission Unit: U-00002	Emission Point: E0002
Process: GT2	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT2	Emission Source: SCR02
Regulated Contaminant(s):	
CAS No: 000630-08-0	CARBON MONOXIDE

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Item 62.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The CO emissions are limited to 8.0 pounds per hour, on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the CO emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 8.0 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 63: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 63.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: SCR01

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Condition 64: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 64.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02

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

Item 64.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The CO emissions are limited to 5.0 parts per million by volume (dry, corrected to 15% O₂), on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the NO_x emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission

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at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 5.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 65: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 65.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: SCR01
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: SCR02

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

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

In order to satisfy the requirements of 6 NYCRR 231-2.7 (b) and 6 NYCRR 227-2.4(e)(2), the NOx emissions are limited to 9.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis during natural gas firing in the combustion turbine and no duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This

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emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b). Based upon a NOx RACT Compliance Plan dated November, 2012, these operational limits shall constitute RACT for purposes of 6 NYCRR 227-2.4(e)(2).

CEMS are to be used to monitor the NOx emissions from the combustion turbine/HRSG without the duct burner unit during natural gas firing in the combustion turbine unit and no duct burner unit.

KIAC will use CEMS to continuously monitor the NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 9.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 66: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 66.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: DB001
Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001

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Process: GT3	Emission Source: SCR01
Emission Unit: U-00002	Emission Point: E0002
Process: GT4	Emission Source: DB002
Emission Unit: U-00002	Emission Point: E0002
Process: GT4	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT4	Emission Source: SCR02
Regulated Contaminant(s):	
CAS No: 000630-08-0	CARBON MONOXIDE

Item 66.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

The CO emissions are limited to 7.5 parts per million by volume (dry, corrected to 15% O₂), on an hourly average basis during low sulfur distillate oil firing in the combustion turbine/HRSG and natural gas firing in the duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the CO emissions from the combustion turbine/HRSG and duct burner units during low sulfur distillate oil firing in the combustion turbine/HRSG and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 7.5 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR Part 60 Appendix B & F

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Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 67: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 67.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02

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:

In order to satisfy the requirements of 6 NYCRR 231-2.7 (b) and 6 NYCRR 227-2.4(e)(2), the NOx emissions are limited to 18.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis during low sulfur distillate oil firing in the combustion turbine and natural gas firing in the duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

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Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the NOx emissions from the combustion turbine/HRSG and duct burner units during low sulfur distillate oil firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the NOx emission at the stack.

According to 6 NYCRR 227-2.6(b)(3)(i)(a), the NOx emissions must be calculated based upon "all 24-hour daily heat input-weighted average NOx emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NOx per million Btu.

Compliance with this emission limit must be determined as indicated above.

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
 Parameter Monitored: OXIDES OF NITROGEN
 Upper Permit Limit: 18.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 68: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 68.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: SCR01

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Emission Unit: U-00002
Process: GT6

Emission Point: E0002
Emission Source: GT002

Emission Unit: U-00002
Process: GT6

Emission Point: E0002
Emission Source: SCR02

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:

The CO emissions are limited to 5.0 parts per million by volume (dry, corrected to 15% O₂), on an hourly average basis during natural gas firing in the combustion turbine and no duct burner. LAER is required in accordance with 6 NYCRR 231-2.7(b). This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the CO emissions from the combustion turbine/HRSG without the duct burner unit during natural gas firing in the combustion turbine unit and no duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission at the stack.

The CO emissions must be calculated based upon "all 24-hour daily heat input-weighted average CO emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of CO per million Btu.

Compliance with this emission limit must be determined as indicated above.

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 5.0 parts per million by volume

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

(dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 69: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 69.1:

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

Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02
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:

CEMS are to be used to monitor CO emissions from the combustion turbine/HRSG without duct burners units while firing light distillate fuel oil in the combustion turbine and no duct burner unit.

The CO emissions are limited to 8.4 pounds per hour, on an hourly average basis during low sulfur distillate oil firing in the combustion turbine and no duct burner unit. LAER is required in accordance with 6 NYCRR 231-2.7(b).

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the CO emissions from the combustion turbine without duct burner unit during low

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sulfur distillate oil firing in the combustion turbine and no duct burner unit.

KIAC will use CEMS to continuously monitor the CO emission at the stack.

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 8.4 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 70: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 70.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 0NY210-00-0	OXIDES OF NITROGEN

Item 70.2:

Compliance Certification shall include the following monitoring:

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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

In order to satisfy the requirements of 6 NYCRR 231-2.7 (b) and 6 NYCRR 227-2.4(e)(2), the NO_x emissions are limited to 9.0 parts per million by volume (dry, corrected to 15% O₂), on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute LAER for purposes of 6 NYCRR 231-2.7 (b).

CEMS are to be used to monitor the NO_x emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner unit.

KIAC will use CEMS to continuously monitor the NO_x emission at the stack.

According to 6 NYCRR 227-2.6(b)(3)(i)(a), the NO_x emissions must be calculated based upon "all 24-hour daily heat input-weighted average NO_x emission rates from block hourly arithmetic emission rate averages calculated by the CEMS and expressed in terms of pounds of NO_x per million Btu.

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000

Parameter Monitored: OXIDES OF NITROGEN

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

Reference Test Method: 40 CFR Part 60 Appendix B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC
MEAN)

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 71: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Item 71.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: GT001
Emission Unit: U-00002	Emission Point: E0002
Process: GT2	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: GT002

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

Item 71.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition applies to the two combustion turbines (Emission Sources GT001 & GT002) when firing natural gas, Processes GT1 & GT5 for Emission Source GT001, and Processes GT2 & GT6 for Emission Source GT002.

Start-up is defined as the period that begins when the combustion turbine generator engine is first fired with fuel and ends when the control equipment operation has achieved and maintained the NOx emission limit of 9.0 parts per million by volume (dry, corrected to 15% O2) on a 1-hour block basis, not to exceed 3 hours.

Shutdown is defined as the period of time not to exceed 3 hours when the stop signal is initiated to when fuel is no longer combusted in the combustion turbine generator engine or a subsequent start is initiated.

Process	NOx Emission Limit
GT1	9.0 parts per million by volume (dry, corrected to 15% O2)
GT5	9.0 parts per million by volume (dry, corrected to 15% O2)
GT2	9.0 parts per million by volume (dry,

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corrected to 15% O2)

GT6 9.0 parts per million by volume (dry, corrected to 15% O2)

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000

Parameter Monitored: OXIDES OF NITROGEN

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

Reference Test Method: See Monitoring Description Above

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC MEAN)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 72: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 72.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: GT001
Emission Unit: U-00002	Emission Point: E0002
Process: GT2	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: GT002
Regulated Contaminant(s):	
CAS No: 000630-08-0	CARBON MONOXIDE

Item 72.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

This condition applies to the two combustion turbines (Emission Sources GT001 & GT002) when firing natural gas, Processes GT1 & GT5 for Emission Source GT001, and Processes GT2 & GT6 for Emission Source GT002.

Start-up is defined as the period that begins when the combustion turbine generator engine is first fired with fuel and ends when the control equipment operation has achieved and maintained the CO emission limit of 5.0 parts per million by volume (dry, corrected to 15% O₂) on a 1-hour block basis, not to exceed 3 hours.

Shutdown is defined as the period of time not to exceed 3 hours when the stop signal is initiated to when fuel is no longer combusted in the combustion turbine generator engine or a subsequent start is initiated.

Process	CO Emission Limit
GT1	5.0 parts per million by volume (dry, corrected to 15% O ₂)
GT5	5.0 parts per million by volume (dry, corrected to 15% O ₂)
GT2	5.0 parts per million by volume (dry, corrected to 15% O ₂)
GT6	5.0 parts per million by volume (dry, corrected to 15% O ₂)

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
 Parameter Monitored: CARBON MONOXIDE
 Upper Permit Limit: 5.0 parts per million by volume (dry, corrected to 15% O₂)
 Reference Test Method: See Monitoring Description Above
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 73: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

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Facility DEC ID: 2630800096

Item 73.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Regulated Contaminant(s): CAS No: 000630-08-0 CARBON MONOXIDE	

Item 73.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

This condition applies to the two combustion turbines (Emission Sources GT001 & GT002) when firing low sulfur distillate oil, Processes GT3 & GT7 for Emission Source GT001, and Processes GT4 & GT8 for Emission Source GT002.

Processes GT3 & GT7, GT4 & GT8

Start-up is defined as the period that begins when the combustion turbine generator engine is first fired with fuel and ends when the control equipment operation has achieved and maintained the CO emission limit of 7.5 parts per million by volume (dry, corrected to 15% O₂) on a 1-hour block basis, not to exceed 3 hours.

Shutdown is defined as the period of time not to exceed 3 hours when the stop signal is initiated to when fuel is no longer combusted in the combustion turbine generator engine or a subsequent start is initiated.

Process	CO Emission Limit
GT3	7.5 parts per million by volume (dry, corrected to 15% O ₂)

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GT7 7.5 parts per million by volume (dry, corrected to 15% O2)

GT4 7.5 parts per million by volume (dry, corrected to 15% O2)

GT8 7.5 parts per million by volume (dry, corrected to 15% O2)

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000

Parameter Monitored: CARBON MONOXIDE

Upper Permit Limit: 7.5 parts per million by volume (dry, corrected to 15% O2)

Reference Test Method: See Monitoring Description Above

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 1-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 74: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 74.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: GT001

Emission Unit: U-00001	Emission Point: E0001
Process: GT7	Emission Source: GT001

Emission Unit: U-00002	Emission Point: E0002
Process: GT4	Emission Source: GT002

Emission Unit: U-00002	Emission Point: E0002
Process: GT8	Emission Source: GT002

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

Item 74.2:

Compliance Certification shall include the following monitoring:

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

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

Monitoring Description:

This condition applies to the two combustion turbines (Emission Sources GT001 & GT002) when firing low sulfur distillate oil, Processes GT3 & GT7 for Emission Source GT001, and Processes GT4 & GT8 for Emission Source GT002.

This condition applies to Processes GT3, GT7, GT4 & GT8.

Start-up is defined as the period that begins when the combustion turbine generator engine is first fired with fuel and ends when the control equipment operation has achieved and maintained the NOx emission limit of 18.0 parts per million by volume (dry, corrected to 15% O2) on a 1-hour block basis, not to exceed 3 hours.

Shutdown is defined as the period of time not to exceed 3 hours when the stop signal is initiated to when fuel is no longer combusted in the combustion turbine generator engine or a subsequent start is initiated.

Process	NOx Emission Limit
GT3	18.0 parts per million by volume (dry, corrected to 15% O2)
GT7	18.0 parts per million by volume (dry, corrected to 15% O2)
GT4	18.0 parts per million by volume (dry, corrected to 15% O2)
GT8	18.0 parts per million by volume (dry, corrected to 15% O2)

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 18.0 parts per million by volume
 (dry, corrected to 15% O2)

Reference Test Method: See Monitoring Description Above

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
 DESCRIPTION

Averaging Method: 24 HOUR DAILY AVERAGE (ARITHMETIC)

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MEAN)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 75: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR 231-11.2

Item 75.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 75.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Baseline Emissions:

A period of time used to quantify a credible emission increase. The baseline period consists of any 24 consecutive months within the five years immediately preceding the date of receipt by the Department of the permit application. The baseline (24 months over last 5 years) period of calendar year 2016 and 2017 was selected to assure the full 24-months block is within the 5-year period and to include relative high amount of operation and NOx emissions for a conservative analysis.

Operating Hours and their NOx emissions for the last 5 years:

Year	Operating Hours	NOx Emissions(tons)
2015	14,151	74.2
2016	13,864	77.7
2017	12,133	69.0
2018	12,489	72.0
2019	10,852	58.5

For the 2016-2017 baseline period, GT001 and GT002 averaged 5,358 hours/year meeting the thresholds for TP operation out of a two-year average of 12,998 hours/year of total operation for the two combustion turbine units. These projected future actual TP operating hours were multiplied by the 23.3 MM BTU/hr increase in combustion turbine generator (CTG) firing rate and multiplied by emission factors for NOx, VOC and other criteria pollutants to calculate the projected total annual

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emissions increases or the two combustion turbines units.

Projected Annual Emissions Increases for TP Upgrade:

Pollutant	Tons/year
NOx	1.57
VOC	0.19
CO	0.22
SO2	0.04
PM/PM-10	0.4
CO2	7,427
H2SO4	0.006
Lead	0.000

Based on the above analysis, the project emission potential (PEP), based on a comparison of past actual to projected future emissions, does not equal or exceed the applicable significant project thresholds (2.5 tpy of NOx or VOC) under Part 231 or PSD significant emission rate thresholds. The project is therefore considered a minor modification and is subject to the provisions of section 231-11.2 of Part 231 and provisions of Subpart 231-6 (Title V Facility Permit), for a minor permit modification that does not trigger a New Source Review modification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 76: Compliance Certification
Effective for entire length of Permit**

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

Item 76.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002

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Facility DEC ID: 2630800096

Regulated Contaminant(s):

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

Item 76.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Because no new or different emission limits or operating restrictions are being proposed, the only changes to the permit might be those associated with Subpart 231-11 Permit and Reasonable Possibility Requirements. As defined in 231-11.2, the reasonable possibility requirements for insignificant modifications are defined as follows for:

a modification with a project emission potential that does not utilize the emissions exclusion allowed under section 231-4.1(b)(41)(i)(c) and

which equals or exceeds 50 % of the applicable significant project threshold in Table 3 of Subpart 231-13 and is less than the applicable significant project threshold

Under Subpart 231-11.2 (c) Reasonable possibility requirements for insignificant modifications, the facility must maintain the following information for the TP upgrades for a minimum of five years:

1. A description of the modification.
2. An identification of each modified emission source including the associated processes and emission unit.
3. The calculation of the project emission potential for each modified emission source including supporting documentation.
4. The date the modification commenced operation.

The facility must 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 5 years following resumption of regular operations after the modification, and submit a report to the Department within 30 days after the end of each year during which records must be generated in accordance with 231-11.2(c)(2). The report must contain:

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1. the name, address, and telephone number of the major facility.
2. the annual emissions as calculated pursuant to 231-11.2(c)(2).
3. 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.

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

**Condition 77: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 231-13

Item 77.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

For a modification with a project emission potential, calculated utilizing projected actual emissions, which does not equal or exceed the applicable significant project threshold in Table 3 or Table 4 of Subpart 231-13 of this Part, the facility owner or operator must comply with the provisions of section 231-11.2 of this part.

The applicable portions of Subpart 231-13 Tables and Emission Thresholds are provided here. In particular, Table 3 specifies significant project threshold, significant net emission increase thresholds, and offset ratios for ozone non-attainment areas and the ozone transport region.

Subpart 231-13 Table 3

Area Contaminant Emission Classification Threshold (tpy)	Significant Project Offset Ratio Thresholds (tpy)	Significant Net Increase Threshold (tpy)
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Severe

VOC least 1.3:1	2.5	>25	At
NOx least 1.3:1	2.5	>25	At

The Significant Project Thresholds is the Project Potential Thresholds (PEP).

The following analysis is provided:

Past actual (baseline) emissions are selected based on a 24-month period from the previous 5 years.

An applicability determination according to Part 231 involving comparison of past actual to projected future actual emissions.

Projected future actual emissions take into account projected future operations, but default to the same operation/demand as for the baseline period, except for the increases associated with the upgrade. Increases due to increased demand would typically be excluded as "could have accommodated" emissions.

Significant Project Threshold:

The project does not change any permitted emission limits and has an actual emission increase below the Part 231 thresholds of 2.5 tons/yr for NOx and VOC, and therefore does not trigger New Source Review (NSR) and requires only a Title V minor modification.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 78: Compliance Certification
Effective for entire length of Permit**

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

Item 78.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT1	Emission Source: DB001

Emission Unit: U-00001	Emission Point: E0001
Process: GT3	Emission Source: DB001

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Emission Unit: U-00002 Emission Point: E0002
 Process: GT2 Emission Source: DB002

Emission Unit: U-00002 Emission Point: E0002
 Process: GT4 Emission Source: DB002

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

Item 78.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The duct burners are limited to natural gas firing. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners). The duct burners are limited to a maximum combined gross heat input of 249 MM BTU/hr. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 MM BTU/hr limit.

Work Practice Type: PROCESS MATERIAL THRUPUT

Process Material: NATURAL GAS

Upper Permit Limit: 249 million Btu per hour

Reference Test Method: 40 CFR Part 60 Appendix B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 79: Compliance Certification
Effective for entire length of Permit

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

Item 79.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001
 Process: GT1 Emission Source: DB001

Emission Unit: U-00001 Emission Point: E0001
 Process: GT1 Emission Source: GT001

Emission Unit: U-00001 Emission Point: E0001
 Process: GT1 Emission Source: SCR01

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Emission Unit: U-00002 Emission Point: E0002
 Process: GT2 Emission Source: DB002

Emission Unit: U-00002 Emission Point: E0002
 Process: GT2 Emission Source: GT002

Emission Unit: U-00002 Emission Point: E0002
 Process: GT2 Emission Source: SCR02

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

Item 79.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

 KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

 The NH3 emissions are limited to 10.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

 Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212.4 (a) and 40 CFR 52.21(j), Subpart A..

 CEMS are to be used to monitor the NH3 emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine and natural gas firing in the duct burner unit.

 KIAC will use CEMS to monitor the NH3 emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 10.0 parts per million by volume

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combustion turbine/HRSG without duct burners units while firing light distillate fuel oil in the combustion turbine and natural gas in the duct burner unit.

KIAC will use CEMS to monitor the NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 6.67 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 81: Compliance Certification
Effective for entire length of Permit

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

Item 81.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 007664-41-7	AMMONIA

Item 81.2:

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Facility DEC ID: 2630800096

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH3 emissions are limited to 9.19 pounds per hour, on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212.4 (a) and 40 CFR 52.21(j), Subpart A.

CEMS are to be used to monitor the NH3 emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to monitor the NH3 emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 9.19 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 82: Compliance Certification
Effective for entire length of Permit

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

Item 82.1:

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

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Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02

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

Item 82.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH3 emissions are limited to 10.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212.4 (a) and 40 CFR 52.21(j), Subpart A.

CEMS are to be used to monitor the NH3 emissions from the combustion turbine/HRSG and duct burner units during low sulfur distillate oil firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to monitor the NH3 emission at the stack.

All records used to determine compliance with the

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 10.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 83: Compliance Certification
 Effective for entire length of Permit**

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

Item 83.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02

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

Item 83.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on

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Emission Unit: U-00002
 Process: GT4

Emission Point: E0002
 Emission Source: DB002

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

Item 84.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The duct burners are limited to natural gas firing. The duct burners are limited to a maximum combined gross heat input of 249 MM BTU/hr each. A restrictive orifice plate was installed on the main fuel gas feeder line and is continuously monitored to limit the feed rate to verify compliance with the 249 MM BTU/hr limit for each duct burner. The total annual natural gas use shall not exceed 1,034 million standard cubic feet per year, based on a daily rolling basis. (This limit is for both duct burners).

Manufacturer Name/Model Number: COEN Lo-NOx-Lo-CO

Reference Test Method: KEEP FUEL RECORDS

Monitoring Frequency: CONTINUOUS

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 85: Compliance Certification
Effective for entire length of Permit

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

Item 85.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
 Process: GT5

Emission Point: E0001
 Emission Source: GT001

Emission Unit: U-00001
 Process: GT5

Emission Point: E0001
 Emission Source: SCR01

Emission Unit: U-00002
 Process: GT6

Emission Point: E0002
 Emission Source: GT002

Emission Unit: U-00002
 Process: GT6

Emission Point: E0002
 Emission Source: SCR02

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

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Emission Unit: U-00001 Emission Point: E0001
 Process: GT7 Emission Source: GT001

Emission Unit: U-00001 Emission Point: E0001
 Process: GT7 Emission Source: SCR01

Emission Unit: U-00002 Emission Point: E0002
 Process: GT8 Emission Source: GT002

Emission Unit: U-00002 Emission Point: E0002
 Process: GT8 Emission Source: SCR02

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

Item 86.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

 KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

 The NH3 emissions are limited to 10.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-

 Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212.4 (a) and 40 CFR 52.21(j), Subpart A.

 CEMS are to be used to monitor NH3 emissions from the combustion turbine/HRSG without the duct burner unit during low sulfur distillate oil firing.

 KIAC will use CEMS to monitor the NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 10.0 parts per million by volume

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(dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 87: Compliance Certification
Effective for entire length of Permit

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

Item 87.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: SCR01
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: SCR02

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

Item 87.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NO_x and fuel flow.

The NH₃ emissions are limited to 10.0 parts per million by volume (dry, corrected to 15% O₂), on an hourly average basis. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212.4 (a) and 40 CFR 52.21(j), Subpart A.

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CEMS are to be used to monitor NH₃ emissions from the combustion turbine/HRSG without the duct burner unit during natural gas firing in the combustion turbine and no duct burner unit.

KIAC will use CEMS to monitor the NH₃ emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 10.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 88: Compliance Certification
Effective for entire length of Permit

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

Item 88.1:

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

Emission Unit: U-00001 Emission Point: E0001

Emission Unit: U-00002 Emission Point: E0002

Regulated Contaminant(s):
 CAS No: 000630-08-0 CARBON MONOXIDE
 CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 88.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The mass emission rate (lb/hr) of NO_x and CO from the combustion turbine/duct burner stacks must be continuously calculated using the methodology contained in the CEM monitoring plan.

Reference Test Method: PT 60 Appendix B & F

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: ANNUAL MAXIMUM ROLLED DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 91: EPA Region 2 address.
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 91.1:

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

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

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

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

**Condition 92: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.7, NSPS Subpart A

Item 92.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001

Emission Unit: U-00002 Emission Point: E0002

Item 92.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

KIAC Cogeneration Plant at JFK Airport received approval from USEPA Region II in a letter dated 11/18/1994 to use Continuous Emission Monitoring (CEMS) in lieu of

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water-to-fuel monitoring in the gas turbine. Emission Units U-00001 & U-00002 are subject to the CEMS monitoring requirements under 40 CFR 60.7 and 60.13 and shall comply with the applicable requirements of these sections.

Reference Test Method: SEE MONITORING ABOVE
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

**Condition 93: Compliance Certification
 Effective for entire length of Permit**

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

Item 93.1:
 The Compliance Certification activity will be performed for the Facility.

Item 93.2:
 Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

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

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 2) a notification of the actual date of initial start up, postmarked within 15 days after such date;
- 3) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change; Permit ID: 2-6308-00096/00009 Facility DEC ID: 2-6308-00096 Air Pollution Control Permit Conditions Renewal 1 Page 65 FINAL
- 4) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;

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5) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and

6) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 94: Recordkeeping requirements.
Effective for entire length of Permit**

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

Item 94.1:

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

**Condition 95: Compliance Certification
Effective for entire length of Permit**

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

Item 95.1:

The Compliance Certification activity will be performed for the Facility.

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report and/or a summary report form (as defined in 40 CFR 60.7(d)) semi-annually (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be post marked no later than 30 days after each six (6) month period (or as appropriate), and shall contain the following information:

1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;

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- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

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

Condition 96: Excess emissions report.
Effective for entire length of Permit

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

Item 96.1:
 A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 97: Facility files for subject sources.
Effective for entire length of Permit

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

Item 97.1:
 The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspections. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 98: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 98.1:
 The Compliance Certification activity will be performed for the facility:
 The Compliance Certification applies to:

Emission Unit: U-00001

Emission Point: E0001

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Process: GT3

Emission Unit: U-00001
Process: GT7

Emission Point: E0001

Emission Unit: U-00002
Process: GT4

Emission Point: E0002

Emission Unit: U-00002
Process: GT8

Emission Point: E0002

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 98.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Optional

Opacity standard compliance testing.

The following conditions shall be used to determine compliance with the opacity standards:

1) The permittee will conduct daily observations of visible emissions from the emission unit, process, etc. to which this condition applies while the process is in operation. The permittee will investigate, in a timely manner, any instance where there is cause to believe that visible emissions have the potential to exceed the opacity standard. The permittee shall investigate the cause, make any necessary corrections, and verify that the excess visible emissions problem has been corrected. If visible emissions with the potential to exceed the standard continue, the permittee will conduct a Method 9 assessment within the next operating day of the sources associated with the potential noncompliance to determine the degree of opacity and will notify the NYSDEC if the Method 9 test indicates that the opacity standard is not met;

2) If required, Method 9 observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60(or an equivalent method approved by the Administrator including continuous opacity monitors) when firing distillate fuel oil;

3) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction;

4) all other applicable conditions cited in section 60.11

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of this part; and

5) Records of visible emissions observations (or any follow-up Method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 99: Circumvention.
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 99.1:

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

**Condition 100: Monitoring requirements.
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 100.1:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

**Condition 101: Monitoring requirements.
Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 101.1:

All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

Continuous compliance with the applicable CO and NOx emission limits shall be demonstrated by CEMS monitoring data. Based on the CEMS data, a separate compliance determination is conducted at the end of each period and a new average emission rate is calculated based on the arithmetic average of all valid hourly emission rates from the previous period. Valid hourly

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emission rates shall not include periods of startup or shutdown. A valid hourly emission rate shall be calculated for each hour in which at least two measurements are obtained at least 15 minutes apart.

Condition 102: Modifications.
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 102.1:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 103: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 60.47b, NSPS Subpart Db

Item 103.1:

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

Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002

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Emission Unit: U-00002

Emission Point: E0002

Process: GT8

Emission Source: SCR02

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 103.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facilities which combust very low sulfur distillate oil are not subject to the requirements of section 40 CFR 60-Db.47b if fuel receipts are obtained in accordance with subdivision 40 CFR 60-Db.49b(r). The owner or operator who elects to demonstrate that the affected facility combusts only very low sulfur distillate oil shall obtain and maintain at the facility fuel receipts from the fuel supplier which certify that the oil meets the definition of low sulfur distillate oil as defined in 40 CFR 60.41b. For the purposes of this requirements, the oil need not meet the fuel nitrogen content specification in the definition of low sulfur distillate oil. Semi-annual reports shall be submitted to the Administrator certifying that only very low sulfur oil was combusted in the affected facility during the reporting period. Reports shall be postmarked by the 30th day following the end of the reporting period.

KIAC primarily uses natural gas for the operation of the two combustion turbines and their associated duct burners, and very infrequently uses low sulfur distillate oil for the two combustion turbines. But KIAC's contract with NYISO requires that Calpine maintains the ability to have dual fuel capability in the event of natural gas shortages or emergencies.

The two combustion turbines at KIAC use the low sulfur distillate oil that is considered to be jet fuel and is supplied by the Kennedy Airport and is the same fuel that is utilized by the airport for fueling airplanes and does not meet the 0.0015 percent sulfur limitation according to 6 NYCRR 225-1.2.

The low sulfur distillate oil is supplied to the KIAC Energy Center via an underground pipeline owned by the Port Authority of NY/NJ. The facility has reviewed the sulfur in fuel data for the liquid jet fuel received from the airport and used by the airplanes and also by KIAC in their two combustion turbines; the current average sulfur content of the jet fuel is 0.074%, and the maximum sulfur content is 0.091%.

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As the fuel used at KIAC is supplied via pipeline, the facility is required to maintain the collection/analysis of the low sulfur distillate oil sample each time the fuel is delivered.

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.

All records must be maintained at the facility for a minimum of five years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 104: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.48b(f), NSPS Subpart Db

Item 104.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001
Emission Unit: U-00002 Process: GT2	Emission Point: E0002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002

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Emission Unit: U-00002
Process: GT6

Emission Point: E0002

Emission Unit: U-00002
Process: GT8

Emission Point: E0002

Regulated Contaminant(s):

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

Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Reference Test Method: Method 7, 7A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 105: Compliance Certification
Effective for entire length of Permit**

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

Item 105.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: GT1

Emission Point: E0001

Emission Unit: U-00001
Process: GT3

Emission Point: E0001

Emission Unit: U-00001
Process: GT5

Emission Point: E0001

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Emission Unit: U-00001
Process: GT7

Emission Point: E0001

Emission Unit: U-00002
Process: GT2

Emission Point: E0002

Emission Unit: U-00002
Process: GT4

Emission Point: E0002

Emission Unit: U-00002
Process: GT6

Emission Point: E0002

Emission Unit: U-00002
Process: GT8

Emission Point: E0002

Regulated Contaminant(s):

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

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The reporting period for the reports required under this subpart is each 6 month period. All reports shall be submitted to the Administrator and shall be postmarked by the 30th day following the end of the reporting period.

The owner or operator of an affected facility may submit electronic quarterly reports for NO_x in lieu of submitting the written reports required above. The format of each quarterly electronic report shall be coordinated with the permitting authority. The electronic report(s) shall be submitted no later than 30 days after the end of the calendar quarter and shall be accompanied by a certification statement from the owner or operator, indicating whether compliance with the applicable emission standards and minimum data requirements of this subpart was achieved during the reporting period. Before submitting reports in the electronic format, the owner or operator shall coordinate with the permitting authority to obtain their agreement to submit reports in this alternative format.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 106: Compliance Certification
Effective for entire length of Permit

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Process: GT7	Emission Source: GT001
Emission Unit: U-00002	Emission Point: E0002
Process: GT4	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT8	Emission Source: GT002
Regulated Contaminant(s):	
CAS No: 007446-09-5	SULFUR DIOXIDE

Item 107.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The two combustion turbines at KIAC use the low sulfur distillate oil that is considered to be jet fuel and is supplied by the Kennedy Airport and is the same fuel that is utilized by the airport for fueling airplanes and does not meet the 0.0015 percent sulfur limitation according to 6 NYCRR 225-1.2.

The low sulfur distillate oil is supplied to the KIAC Energy Center via an underground pipeline owned by the Port Authority of NY/NJ. The facility has reviewed the sulfur in fuel data for the liquid jet fuel received from the airport and used by the airplanes and also by KIAC in their two combustion turbines; the current average sulfur content of the jet fuel is 0.074%, and the maximum sulfur content is 0.091%.

As the fuel used at KIAC is supplied via pipeline, the facility is required to maintain the collection/analysis of the low sulfur distillate oil sample each time the fuel is delivered.

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.

All records must be maintained at the facility for a minimum of five years.

Parameter Monitored: SULFUR CONTENT

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Facility DEC ID: 2630800096

Upper Permit Limit: 0.091 percent by weight
 Reference Test Method: ASTM-D3246-81 & D3031
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 108: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 60.334(h)(3), NSPS Subpart GG

Item 108.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT5	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT6	Emission Point: E0002 Emission Source: GT002
Regulated Contaminant(s): CAS No: 007446-09-5	SULFUR DIOXIDE

Item 108.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

In accordance with the May 30, 1997 EPA Approved Custom Fuel Monitoring Schedule, the Sulfur content of the natural gas used at the facility will be sampled on a semi-annual basis. Semi-annual sampling will be conducted during the first and third quarters of each calendar year as per ASTM D-5504 Method.

Process Material: NATURAL GAS
 Parameter Monitored: SULFUR CONTENT
 Upper Permit Limit: 16.0 parts per million by volume (dry)
 Reference Test Method: ASTM D-5504
 Monitoring Frequency: SEMI-ANNUALLY

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Item 109.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) no longer qualify as a “gas fired boiler” and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A “gas-fired boiler” is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

Owners or operators of affected sources which are subject to 40 CFR Part 63 must comply with the applicable requirements of 40 CFR 63 Subpart A, as defined by the specific MACT regulation. The KIAC facility is subject to the requirements of 40 CFR 63 Subpart A as defined in the following MACT tables:

40 CFR 63 Subpart JJJJJ, Table 8 [Part 63.11235]

Subpart A (the General Provisions for the NESHAP for Source Categories regulations) contains requirements for performance testing, monitoring, notification, recordkeeping, reporting, and control devices that may apply to the source.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 110: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 63.11201(b), Subpart JJJJJ

Item 110.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

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Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 110.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) in Emission Unit B-OILRS no longer qualify as "gas fired boiler" and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A "gas-fired boiler" is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas

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curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

Within 180 days of becoming subject to this Subpart, KIAC shall conduct a one-time energy assessment that meets or is amended to meet the energy assessment requirements in Table 2 of 40 CFR 63 Subpart JJJJJ.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 111: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.11201(b), Subpart JJJJJ

Item 111.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01

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Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 111.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) in Emission Unit B-OILRS no longer qualify as "gas fired boiler" and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A "gas-fired boiler" is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a "gas fired boiler", the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

Within 180 days of becoming subject to this Subpart, KIAC shall conduct an initial tune-up of the existing affected boiler (s) as specified in Part 63.11214, and conduct a tune-up of the affected boiler (s) biennially as specified in Part 63.11223 (b).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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Condition 112: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.11205(a), Subpart JJJJJ

Item 112.1:

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

Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
 CAS No: 0NY100-00-0 TOTAL HAP

Item 112.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) in Emission Unit B-OILRS no longer qualify as "gas fired boiler" and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A "gas-fired boiler" is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a "gas fired boiler", the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

At all times KIAC must operate and maintain the affected boiler(s), including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. The general duty to minimize emissions does not require you to make any further efforts to reduce emissions if levels required by this standard have been achieved. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Administrator that may include, but is not limited to, monitoring results, review of operation and maintenance procedures, review of operation and maintenance records, and inspection of the source.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 113: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.11214(c), Subpart JJJJJ

Item 113.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-OILRS
Process: BD2

Emission Point: 00015
Emission Source: HWG01

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Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 113.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) in Emission Unit B-OILRS no longer qualify as "gas fired boiler" and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A "gas-fired boiler" is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a

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boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

KIAC must submit a signed certification of Compliance Status report that an energy assessment of the boiler and its energy use systems was completed according to Table 2 of 40 CFR 63 Subpart JJJJJ and is an accurate depiction of this facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 114: Compliance Certification
Effective for entire length of Permit**

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

Item 114.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 114.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) in Emission Unit B-OILRS no longer qualify as a “gas fired boiler” and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A “gas-fired boiler” is defined as any boiler that burns

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Facility DEC ID: 2630800096

gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

Emission Sources HWG02 and HWG03 are not equipped with an oxygen trim system. In order to comply with the requirements of 40 CFR 63.11223 (a) through (c), then KIAC must conduct a performance tune-up of the affected boiler(s) biennially. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.

Each biennial tune-up must be conducted while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. Each biennial tune-up must be conducted as follows:

- (1) Inspect the burner, and clean or replace any components of the burner as necessary. KIAC may delay the burner inspection until the next scheduled boiler shutdown, however; each burner must be inspected at least once every 36 months).
- (2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
- (3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (KIAC may delay the inspection of the system until the next scheduled boiler shutdown, however; the system controlling the air-to-fuel ratio must be inspected at least once every 36 months).
- (4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.
- (5) Measure the concentrations in the effluent stream of

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CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

- (6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.
 - (ii) A description of any corrective actions taken as a part of the tune-up of the boiler.
 - (iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

(7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup. Records shall be maintained which identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned. In order to comply with recordkeeping requirements of 40 CFR 63.11225 (d), records must be in form suitable and readily available for expeditious review. Records shall be retained for five years and made available to the Agency upon request. Records for the most recent two year period shall be maintained on-site or be accessible at the site. Records for the remaining three years may be kept offsite.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 115: Compliance Certification
Effective for entire length of Permit**

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

Item 115.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-OILRS

Emission Point: 00015

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Process: BD2	Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 115.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) in Emission Unit B-OILRS no longer qualify as a “gas fired boiler” and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A “gas-fired boiler” is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

Emission Sources HWG01, HWG04, HWG05 and HWG06 are equipped with an oxygen trim system that maintains an optimum air-to-fuel ratio. In order to comply with the

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requirements of 40 CFR 63.11223 (a) through (c), KIAC must conduct a performance tune-up of the affected boiler(s) every 5 years. Each 5-year tune-up must be conducted no more than 61 months after the previous tune-up.

Each 5-year tune-up must be conducted while burning the type of fuel (or fuels in the case of boilers that routinely burn two types of fuels at the same time) that provided the majority of the heat input to the boiler over the 12 months prior to the tune-up. Each 5-year tune-up must be conducted as follows:

(1) Inspect the burner, and clean or replace any components of the burner as necessary. KIAC may delay the burner inspection until the next scheduled boiler shutdown, however; each burner must be inspected at least once every 72 months).

(2) Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.

(3) Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly. (KIAC may delay the inspection of the system until the next scheduled boiler shutdown, however; the system controlling the air-to-fuel ratio must be inspected at least once every 72 months).

(4) Optimize total emissions of CO. This optimization should be consistent with the manufacturer's specifications, if available, and with any nitrogen oxide requirement to which the unit is subject.

(5) Measure the concentrations in the effluent stream of CO in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made). Measurements may be taken using a portable CO analyzer.

(6) Maintain on-site and submit, if requested by the Administrator, a report containing the information in paragraphs (b)(6)(i) through (iii) of this section.

(i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured at high fire or typical operating load, before and after the tune-up of the boiler.

(ii) A description of any corrective actions taken as a part of the tune-up of the boiler.

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(iii) The type and amount of fuel used over the 12 months prior to the tune-up of the boiler, but only if the unit was physically and legally capable of using more than one type of fuel during that period. Units sharing a fuel meter may estimate the fuel use by each unit.

(7) If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within 30 days of startup.

Records shall be maintained which identify each boiler, the date of tune-up, the procedures followed for tune-up, and the manufacturer's specifications to which the boiler was tuned.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 116: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 63.11225(a), Subpart JJJJJ

Item 116.1:

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

Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS	Emission Point: 00016

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well as a certification of compliance. The NOCS must be signed by a responsible official.

(i) information required in 40 CFR §63.9(h)(2), except the information listed in §63.9(h)(2)(i)(B), (D), (E), and (F).

(ii) “This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler.”

(iii) “This facility has had an energy assessment performed according to §63.11214 (c).”

(iv) “No secondary materials that are solid waste were combusted in any affected unit.”

The NOCS must be submitted electronically using the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However; if the reporting form specific to this subpart is not available in CEDRI at the time that the report is due, the written NOCS must be submitted to the Administrator at the appropriate address listed in §63.13.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 117: Compliance Certification
Effective for entire length of Permit**

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

Item 117.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-OILRS Process: BD2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BD2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05

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Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 117.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) no longer qualify as a “gas fired boiler” and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A “gas-fired boiler” is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

In order to comply with the requirements of 40 CFR 63.11225 (b), KIAC must prepare, by March 1 following the biennial compliance period, and submit to the delegated authority upon request, a biennial compliance report for

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the previous compliance period containing the information identified below.

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

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

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

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

Records shall be maintained for five years and made available to the Agency upon request.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 118: Compliance Certification
 Effective for entire length of Permit**

Applicable Federal Requirement:40CFR 63.11225(d), Subpart JJJJJ

Item 118.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: B-OILRS	Emission Point: 00015
Process: BD2	Emission Source: HWG01
Emission Unit: B-OILRS	Emission Point: 00016

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Process: BD2	Emission Source: HWG02
Emission Unit: B-OILRS Process: BD2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BD2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BD2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BD2	Emission Point: 00020 Emission Source: HWG06
Emission Unit: B-OILRS Process: BG2	Emission Point: 00015 Emission Source: HWG01
Emission Unit: B-OILRS Process: BG2	Emission Point: 00016 Emission Source: HWG02
Emission Unit: B-OILRS Process: BG2	Emission Point: 00017 Emission Source: HWG03
Emission Unit: B-OILRS Process: BG2	Emission Point: 00018 Emission Source: HWG04
Emission Unit: B-OILRS Process: BG2	Emission Point: 00019 Emission Source: HWG05
Emission Unit: B-OILRS Process: BG2	Emission Point: 00020 Emission Source: HWG06

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 118.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Under Processes BG2 and BD2, the affected boiler(s) no longer qualify as a “gas fired boiler” and are subject to the requirements of 40 CFR 63 Subpart JJJJJ (Boiler MACT for area sources). A “gas-fired boiler” is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns low sulfur distillate oil only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. (Periodic testing of low sulfur distillate oil shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires low sulfur distillate oil after March 21, 2014 (the regulatory

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compliance date for Boiler MACT for area sources) during periods other than provided for under the definition of a “gas fired boiler”, the boiler will be subject to the requirements of 40 CFR 63 Subpart JJJJJ and must comply with this permit condition.

The owner’s or operator’s records must be in a form suitable and readily available for expeditious review. The owner or operator must keep each record for 5 years following the date of each recorded action. The owner or operator must keep each record on-site or be accessible from a central location by computer or other means that instantly provide access at the site for at least 2 years after the date of each recorded action. The owner or operator may keep the records off site for the remaining 3 years.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 119: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement: 40CFR 75.20, Subpart C

Item 119.1:

The Compliance Certification activity will be performed for the Facility.

Item 119.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

CEM operation and maintenance requirements - certification and recertification procedures:

Whenever the owner or operator makes a replacement, modification, or change in the certified continuous emission monitoring system (which includes the automated data acquisition and handling system, and, where applicable, the CO₂ continuous emission monitoring system), that significantly affects the ability of the system to measure, volumetric gas flow, NO_x emission rate, NO_x concentration, or to meet the requirements of Part 75.21 or appendix B of 40 CFR 75, the owner or operator shall recertify the continuous emission monitoring system, according to the procedures in 40 CFR 75. Examples of changes which require recertification include: replacement of the analytical method, including the analyzer; change in location or orientation of the sampling probe or site;

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rebuilding of the analyzer or all monitoring system equipment; and replacement of an existing continuous emission monitoring system.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 120: Compliance Certification
Effective for entire length of Permit**

Applicable Federal Requirement: 40CFR 97.406, Subpart AAAAA

Item 120.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

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

Item 120.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NOX Annual source (facility) and each TR NOX Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

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(3) The emissions data determined shall be used to calculate allocations of TR NO_x Annual allowances and to determine compliance with the TR NO_x Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NO_x Annual facility and each TR NO_x Annual Unit at the facility shall hold, in the facilities compliance account, TR NO_x Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NO_x emissions for such control period from all TR NO_x Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 121: Compliance Certification
Effective for entire length of Permit

Applicable Federal Requirement:40CFR 97.606, Subpart CCCCC

Item 121.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 121.2:

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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

Condition 122: Emission Point Definition By Emission Unit Effective for entire length of Permit

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 122.1:

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

Emission Unit: B-OILRS

Emission Point: 00015

Height (ft.): 35 Diameter (in.): 66
 NYTMN (km.): 4500.288 NYTME (km.): 602.764 Building: COGENB

Emission Point: 00016

Height (ft.): 39 Diameter (in.): 48
 NYTMN (km.): 4500.295 NYTME (km.): 602.76 Building: COGENB

Emission Point: 00017

Height (ft.): 39 Diameter (in.): 48
 NYTMN (km.): 4500.301 NYTME (km.): 602.756 Building: COGENB

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Emission Point: 00018
 Height (ft.): 35 Diameter (in.): 66
 NYTMN (km.): 4500.308 NYTME (km.): 602.753 Building: COGENB

Emission Point: 00019
 Height (ft.): 39 Diameter (in.): 48
 NYTMN (km.): 4500.314 NYTME (km.): 602.749 Building: COGENB

Emission Point: 00020
 Height (ft.): 39 Diameter (in.): 48
 NYTMN (km.): 4500.321 NYTME (km.): 602.745 Building: COGENB

Item 122.2:

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

Emission Unit: U-00001

Emission Point: E0001
 Height (ft.): 110 Diameter (in.): 114
 NYTMN (km.): 4500.253 NYTME (km.): 602.718 Building: COGENB

Item 122.3:

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

Emission Unit: U-00002

Emission Point: E0002
 Height (ft.): 110 Diameter (in.): 114
 NYTMN (km.): 4500.262 NYTME (km.): 602.734 Building: COGENB

**Condition 123: Process Definition By Emission Unit
 Effective for entire length of Permit**

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 123.1:

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

Emission Unit: B-OILRS
 Process: BD1 Source Classification Code: 1-03-004-02
 Process Description:

Process BD1 is when the six boilers are firing low sulfur distillate oil, where the boilers qualify as "Gas-Only" units and are exempt from the requirements of 40 CFR 63 Subpart JJJJJ. Use of low sulfur distillate oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. Periodic testing of low sulfur distillate oil does not exceed a total of 48 hours during any calendar year for each of the six emergency boilers (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06) in Emission Unit B-OILRS).

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Design Capacity: 75 million Btu per hour

Emission Source/Control: HWG05 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: HWG06 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: HWGC1 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC4 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC5 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC6 - Control
Control Type: OXYGEN TRIM SYSTEM

Item 123.3:

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

Emission Unit: B-OILRS

Process: BG1

Source Classification Code: 1-03-006-02

Process Description:

Process BG1 is when the six boilers are firing natural gas, where the boilers qualify as "Gas-Only" units and are exempt from the requirements of 40 CFR 63 Subpart JJJJJJ. (Use of low sulfur distillate oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. Periodic testing of low sulfur distillate oil does not exceed a combined total of 48 hours during any calendar year).

Emission Source/Control: HWG01 - Combustion
Design Capacity: 40 million Btu per hour

Emission Source/Control: HWG02 - Combustion
Design Capacity: 40 million Btu per hour

Emission Source/Control: HWG03 - Combustion
Design Capacity: 40 million Btu per hour

Emission Source/Control: HWG04 - Combustion
Design Capacity: 75 million Btu per hour

Emission Source/Control: HWG05 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: HWG06 - Combustion

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Design Capacity: 60 million Btu per hour

Emission Source/Control: HWGC1 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC4 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC5 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC6 - Control
Control Type: OXYGEN TRIM SYSTEM

Item 123.4:

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

Emission Unit: B-OILRS

Process: BG2

Source Classification Code: 1-03-006-02

Process Description:

Process BG2 is when the six boilers are firing natural gas, where the boilers are subject to the requirements of 40 CFR 63 Subpart JJJJJ.

Emission Source/Control: HWG01 - Combustion
Design Capacity: 40 million Btu per hour

Emission Source/Control: HWG02 - Combustion
Design Capacity: 40 million Btu per hour

Emission Source/Control: HWG03 - Combustion
Design Capacity: 40 million Btu per hour

Emission Source/Control: HWG04 - Combustion
Design Capacity: 75 million Btu per hour

Emission Source/Control: HWG05 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: HWG06 - Combustion
Design Capacity: 60 million Btu per hour

Emission Source/Control: HWGC1 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC4 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC5 - Control
Control Type: OXYGEN TRIM SYSTEM

Emission Source/Control: HWGC6 - Control

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Control Type: OXYGEN TRIM SYSTEM

Item 123.5:

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

Emission Unit: U-00001

Process: GT1

Source Classification Code: 2-02-002-03

Process Description:

Process GT1 is the firing of natural gas in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

The software for these two General Electric LM6000 combustion turbines (Emission Sources GT001 & GT002) is being upgraded to enhance utilization of the existing units' capability for better performance in order to increase the MW output. The proposed Peak Performance ("Throttle Push") upgrade is a controls software upgrade that allows for increased firing temperature in the combustion turbine. This upgrade is expected to yield up to 2.5 MW increase in combustion turbine generator (CTG) output with a 23.3 MM Btu/hr incremental fuel increase.

The upgrade will be available for utilization during natural gas fired operation (Processes GT1 & GT5) when the ambient temperature is greater than 46 degrees F while maintaining compliance with current permit limits at its KIAC Cogen Facility at JFK Airport in Queens. The feature increases the maximum combustion turbine output on high-demand days, so it will only be utilized when the unit is operating at 100% full load (at CTG low pressure turbine inlet temperature > 1595 F). The upgrade will be implemented on each unit, as soon as this minor permit modification is issued and after making the additional generating capacity available to meet peak demand.

Emission Source/Control: DB001 - Combustion

Design Capacity: 249 million Btu per hour

Emission Source/Control: GT001 - Combustion

Design Capacity: 469 million Btu per hour

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

Item 123.6:

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

Emission Unit: U-00001
Process: GT3
Source Classification Code: 2-02-001-03
Process Description:

Process GT3 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT001).

Emission Source/Control: DB001 - Combustion
Design Capacity: 249 million Btu per hour

Emission Source/Control: GT001 - Combustion
Design Capacity: 469 million Btu per hour

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

Item 123.7:

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

Emission Unit: U-00001
Process: GT5
Source Classification Code: 2-02-002-03
Process Description:

Process GT5 is the firing of natural gas in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with no supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control

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SCR01) as an emission control.

The software for these two General Electric LM6000 combustion turbines (Emission Sources GT001 & GT002) is being upgraded to enhance utilization of the existing units' capability for better performance in order to increase the MW output. The proposed Peak Performance ("Throttle Push") upgrade is a controls software upgrade that allows for increased firing temperature in the combustion turbine. This upgrade is expected to yield up to 2.5 MW increase in combustion turbine generator (CTG) output with a 23.3 MM Btu/hr incremental fuel increase.

The upgrade will be available for utilization during natural gas fired operation (Processes GT1 & GT5) when the ambient temperature is greater than 46 degrees F while maintaining compliance with current permit limits at its KIAC Cogen Facility at JFK Airport in Queens. The feature increases the maximum combustion turbine output on high-demand days, so it will only be utilized when the unit is operating at 100% full load (at CTG low pressure turbine inlet temperature > 1595 F). The upgrade will be implemented on each unit, as soon as this minor permit modification is issued and after making the additional generating capacity available to meet peak demand.

Emission Source/Control: GT001 - Combustion
Design Capacity: 469 million Btu per hour

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

Item 123.8:

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

Emission Unit: U-00001
Process: GT7 Source Classification Code: 2-02-001-03
Process Description:

Process GT7 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with no supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million

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gallons per year per combustion turbine (Emission Source GT001).

Emission Source/Control: GT001 - Combustion
Design Capacity: 469 million Btu per hour

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

Item 123.9:

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

Emission Unit: U-00002

Process: GT2

Source Classification Code: 2-02-002-03

Process Description:

Process GT2 is the firing of natural gas in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with supplemental firing of the duct burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

The software for these two General Electric LM6000 combustion turbines (Emission Sources GT001 & GT002) is being upgraded to enhance utilization of the existing units' capability for better performance in order to increase the MW output. The proposed Peak Performance ("Throttle Push") upgrade is a controls software upgrade that allows for increased firing temperature in the combustion turbine. This upgrade is expected to yield up to 2.5 MW increase in combustion turbine generator (CTG) output with a 23.3 MM Btu/hr incremental fuel increase.

The upgrade will be available for utilization during natural gas fired operation (Processes GT2 & GT6) when the ambient temperature is greater than 46 degrees F while maintaining compliance with current permit limits at its KIAC Cogen Facility at JFK Airport in Queens. The feature increases the maximum combustion turbine output on high-demand days, so it will only be utilized when the unit is operating at 100% full load (at CTG low pressure turbine inlet temperature > 1595 F). The upgrade will be implemented on each unit, as soon as this minor permit modification is issued and after making the additional generating capacity available to meet peak demand.

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Emission Source/Control: DB002 - Combustion
 Design Capacity: 249 million Btu per hour

Emission Source/Control: GT002 - Combustion
 Design Capacity: 469 million Btu per hour

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

Item 123.10:

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

Emission Unit: U-00002
 Process: GT4 Source Classification Code: 2-02-001-03

Process Description:

Process GT4 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with supplemental firing of the duct burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT002).

Emission Source/Control: DB002 - Combustion
 Design Capacity: 249 million Btu per hour

Emission Source/Control: GT002 - Combustion
 Design Capacity: 469 million Btu per hour

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

Item 123.11:

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

Emission Unit: U-00002
 Process: GT6 Source Classification Code: 2-02-002-03

Process Description:

Process GT6 is the firing of natural gas in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with no supplemental firing of the duct

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burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

The software for these two General Electric LM6000 combustion turbines (Emission Sources GT001 & GT002) is being upgraded to enhance utilization of the existing units' capability for better performance in order to increase the MW output. The proposed Peak Performance ("Throttle Push") upgrade is a controls software upgrade that allows for increased firing temperature in the combustion turbine. This upgrade is expected to yield up to 2.5 MW increase in combustion turbine generator (CTG) output with a 23.3 MM Btu/hr incremental fuel increase.

The upgrade will be available for utilization during natural gas fired operation (Processes GT2 & GT6) when the ambient temperature is greater than 46 degrees F while maintaining compliance with current permit limits at its KIAC Cogen Facility at JFK Airport in Queens. The feature increases the maximum combustion turbine output on high-demand days, so it will only be utilized when the unit is operating at 100% full load (at CTG low pressure turbine inlet temperature > 1595 F). The upgrade will be implemented on each unit, as soon as this minor permit modification is issued and after making the additional generating capacity available to meet peak demand.

Emission Source/Control: GT002 - Combustion
 Design Capacity: 469 million Btu per hour

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

Item 123.12:

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

Emission Unit: U-00002

Process: GT8

Source Classification Code: 2-02-001-03

Process Description:

Process GT8 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with no supplemental firing of the duct burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the

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secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT002).

Emission Source/Control: GT002 - Combustion
 Design Capacity: 469 million Btu per hour

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

**Condition 124: Emission Unit Permissible Emissions
 Effective for entire length of Permit**

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 124.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00001

CAS No: 000630-08-0
 Name: CARBON MONOXIDE
 PTE(s): 11.2 pounds per hour
 61,900 pounds per year

Emission Unit: U-00002

CAS No: 000630-08-0
 Name: CARBON MONOXIDE
 PTE(s): 11.2 pounds per hour
 61,900 pounds per year

Emission Unit: B-OILRS

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 78.75 pounds per hour
 48,000 pounds per year

Emission Unit: U-00001

CAS No: 0NY210-00-0
 Name: OXIDES OF NITROGEN
 PTE(s): 36.5 pounds per hour

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180,600 pounds per year

Emission Unit: U-00002

CAS No: 0NY210-00-0

Name: OXIDES OF NITROGEN

PTE(s): 36.5 pounds per hour

180,600 pounds per year

**Condition 125: Compliance Certification
Effective for entire length of Permit**

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

Item 125.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: E0001

Regulated Contaminant(s):

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

Item 125.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall record and maintain records of the amounts of each fuel combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Reference Test Method: Method 7, 7A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 126: Compliance Certification
Effective for entire length of Permit**

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

Permit ID: 2-6308-00096/00009

Facility DEC ID: 2630800096

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: E0001

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

Item 126.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Established permit limits apply to all loads of operation, except during periods of start-up, malfunctions, shut-down, fuel switching and electrical feedline maintenance.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 127: Compliance Certification
 Effective for entire length of Permit**

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

Item 127.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001

Emission Unit: U-00002 Emission Point: E0002

Item 127.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner and operator of each affected facility shall submit notification of the date of construction or reconstruction, anticipated startup, and actual startup, as provided by 40 CFR 60.7 of this part. This notification shall include:

- (1) The design heat input capacity of the affected facility and identification of fuels to be combusted in the affected facility.
- (2) If applicable, a copy of any Federally enforceable

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requirement that limits the annual capacity factor for any fuel or mixture of fuels under 40 CFR 60.42c., or 40 CFR 60.43c.

(3) The annual capacity factor at which the owner or operator anticipates operating the affected facility based on all fuels fired and based on each individual fuel fired.

Monitoring Frequency: SINGLE OCCURRENCE

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 128: CEMS
Effective for entire length of Permit

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

Item 128.1:

This Condition applies to Emission Unit: U-00001 Emission Point: E0001

Item 128.2:

The owner or operator of any stationary gas turbine that commenced construction, reconstruction or modification after October 3, 1977, but before July 8, 2004, and which uses water or steam injection to control NOX emissions may, as an alternative to operating the continuous monitoring system described in paragraph (a) of this section, install, certify, maintain, operate, and quality-assure a continuous emission monitoring system (CEMS) consisting of NOX and O2 monitors. As an alternative, a CO2 monitor may be used to adjust the measured NOX concentrations to 15 percent O2 by either converting the CO2 hourly averages to equivalent O2 concentrations using Equation F-14a or F-14b in appendix F to 40 CFR Part 75 and making the adjustments to 15 percent O2, or by using the CO2 readings directly to make the adjustments, as described in Method 20. If the option to use a CEMS is chosen, the CEMS shall be installed, certified, maintained and operated as specified in 40 CFR 60.334(b)(1), (2) and (3).

Condition 129: Compliance Certification
Effective for entire length of Permit

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

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002 Emission Point: E0002

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

Item 129.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an affected facility shall

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record and maintain records of the amounts of each fuel combusted during each day. When nitrogen oxides emission data are not obtained because of continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments, emission data will be obtained by using standby monitoring systems, Method 7, Method 7A, or other approved reference methods to provide emission data for a minimum of 75 percent of the operating hours in each steam generating unit operating day, in at least 22 out of 30 successive steam generating unit operating days.

Reference Test Method: Method 7, 7A

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 130: Compliance Certification
Effective for entire length of Permit**

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

Item 130.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: E0002

Regulated Contaminant(s):

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

Item 130.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Established permit limits apply to all loads of operation, except during periods of start-up, malfunctions, shut-down, fuel switching and electrical feedline maintenance.

Reference Test Method: PT 60 APPENDIX B & F

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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STATE ONLY ENFORCEABLE CONDITIONS
****** Facility Level ******

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

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

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

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

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

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

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

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all 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 131: Contaminant List
Effective for entire length of Permit

Applicable State Requirement:ECL 19-0301

Item 131.1:

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

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

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

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

CAS No: 007664-41-7
Name: AMMONIA

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

CAS No: 0NY100-00-0
Name: TOTAL HAP

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

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Condition 132: Malfunctions and Start-up/Shutdown Activities
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 201-1.4

Item 132.1:

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

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

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

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

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

Condition 133: CLCPA Applicability
Effective for entire length of Permit

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

Item 133.1:

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

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regulations to be promulgated by the Department to ensure that by 2030 statewide greenhouse gas emissions are reduced by 40% of 1990 levels, and by 2050 statewide greenhouse gas emissions are reduced by 85% of 1990 levels.

Condition 134: Air pollution prohibited
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 211.1

Item 134.1:

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 135: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 211.1

Item 135.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 135.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facility shall establish a complaint response procedure to manage complaints related to air emissions from this facility. The procedure shall be designed to ensure that complaints from officials or neighbors are adequately received and documented, and that appropriate response is taken by the facility. The facility shall:

1. Have a complaint phone line available 24 hours a day, 7 days a week.
2. Investigate any possible causes of any complaint received.
3. Take prompt action to abate any circumstance which is found to be the cause of the complaint.
4. Fully document the complaint, results of investigation, and any action taken.
5. Report in a format acceptable to the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

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sulfur distillate oil firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to monitor the NH3 emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 9.25 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 137: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 137.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 007664-41-7	AMMONIA

Item 137.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH₃ emissions are limited to 9.19 pounds per hour, on an hourly average basis during natural gas firing in the combustion turbine/HRSG and natural gas firing in the duct burner. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212-2.3 (b) and 40 CFR 52.21(j), Subpart A.

CEMS are to be used to monitor the NH₃ emissions from the combustion turbine/HRSG and duct burner units during natural gas firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to monitor the NH₃ emission at the stack.

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

Manufacturer Name/Model Number: CEMS

Parameter Monitored: AMMONIA

Upper Permit Limit: 9.19 pounds per hour

Reference Test Method: 40 CFR Part 60 Appendix B & F

Monitoring Frequency: CONTINUOUS

Averaging Method: 1-HOUR BLOCK AVERAGE

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 138: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 138.1:

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

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Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT3	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT4	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 007664-41-7	AMMONIA

Item 138.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH3 emissions are limited to 10.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212-2.3 (b) and 40 CFR 52.21(j), Subpart A.

CEMS are to be used to monitor the NH3 emissions from the combustion turbine/HRSG and duct burner units during low sulfur distillate oil firing in the combustion turbine and natural gas firing in the duct burner unit.

KIAC will use CEMS to monitor the NH3 emission at the stack.

All records used to determine compliance with the applicable limit (s) must be kept at the facility (or

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other Department approved location) for a minimum of five years.

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 10.0 parts per million by volume
 (dry, corrected to 15% O2)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 139: Compliance Demonstration
 Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 139.1:

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

Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02
Regulated Contaminant(s): CAS No: 007664-41-7 AMMONIA	

Item 139.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH3 emissions are limited to 10.0 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the

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requirements of 6 NYCRR 201-

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212-2.3 (b) and 40 CFR 52.21(j), Subpart A.

CEMS are to be used to monitor NH₃ emissions from the combustion turbine/HRSG without the duct burner unit during low sulfur distillate oil firing.

KIAC will use CEMS to monitor the NO_x emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 10.0 parts per million by volume
 (dry, corrected to 15% O₂)
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

**Condition 140: Compliance Demonstration
 Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 140.1:

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

Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: DB001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT1	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: DB002
Emission Unit: U-00002 Process: GT2	Emission Point: E0002 Emission Source: GT002

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

**Condition 141: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 141.1:

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

Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: GT001
Emission Unit: U-00001 Process: GT7	Emission Point: E0001 Emission Source: SCR01
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: GT002
Emission Unit: U-00002 Process: GT8	Emission Point: E0002 Emission Source: SCR02

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

Item 141.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH3 emissions are limited to 6.67 pounds per hour, on an hourly average basis during low sulfur distillate oil firing in the turbine without duct firing. This emission limit applies at all times, except during periods of start-up/shutdown, equipment maintenance, malfunctions and upsets as per the requirements of 6 NYCRR 201-1.4.

Operation of the source in this manner shall constitute BACT for purposes of 6 NYCRR 212.4 (a) and 40 CFR 52.21(j), Subpart A.

CEMS are to be used to monitor NH3 emissions from the combustion turbine/HRSG without duct burners units while firing low sulfur distillate oil in the combustion turbine and natural gas in the duct burner unit.

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KIAC will use CEMS to monitor the NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
 Parameter Monitored: AMMONIA
 Upper Permit Limit: 6.67 pounds per hour
 Reference Test Method: 40 CFR Part 60 Appendix B & F
 Monitoring Frequency: CONTINUOUS
 Averaging Method: 1-HOUR BLOCK AVERAGE
 Reporting Requirements: QUARTERLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 3 calendar month(s).

Condition 142: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 212-2.3 (b)

Item 142.1:

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

Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: GT001
Emission Unit: U-00001	Emission Point: E0001
Process: GT5	Emission Source: SCR01
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: GT002
Emission Unit: U-00002	Emission Point: E0002
Process: GT6	Emission Source: SCR02
Regulated Contaminant(s):	
CAS No: 007664-41-7	AMMONIA

Item 142.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)

Monitoring Description:

KIAC will control Ammonia emissions through proper operation and control of the Selective Catalytic Reduction (SCR). Control of the Ammonia feed rate will be based on the NOx and fuel flow.

The NH3 emissions are limited to 10.0 parts per million by

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Applicable State Requirement:6 NYCRR 227-1.4

Item 144.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 144.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Any person subject to the provisions of this section shall record and maintain a file of such measurements and operating data, as may be required by the commissioner.

Reporting Requirements: UPON REQUEST BY REGULATORY AGENCY

**Condition 145: Compliance Demonstration
Effective for entire length of Permit**

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

Item 145.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 145.2:

Compliance Demonstration shall include the following monitoring:

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

Monitoring Description:

Any person who owns a stationary installation (excluding gas turbines), with a total maximum heat input capacity exceeding 250 million Btu per hour shall install, operate in accordance with manufacturer's instructions, and properly maintain, accurate instruments satisfying the criteria in appendix B of title 40, part 60 of the Code of Federal Regulations, or approved by the commissioner on an individual case basis, for continuously monitoring and recording opacity, and when sulfur dioxide continuous monitoring is required by Part 225 of this Title, for continuously monitoring and recording either the percent oxygen or carbon dioxide in the flue gases from such installations at all times that the combustion installation is in service. Where gas is the only fuel burned, monitoring and recording of opacity is not required.

KIAC is not required to install or maintain a continuous opacity monitor (COM) for monitoring the opacity. This is

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due to the fact that KIAC's turbines are equipped with a supplemental firing COEN duct burner and the duct burners are limited to natural gas firing only and the duct burners are below 250 MM Btu/hr and therefore; KIAC is also not required to monitor the opacity using COMS for stationary combustion installations as per 6 NYCRR 227-1.7.

Parameter Monitored: OPACITY
 Upper Permit Limit: 20 percent
 Reference Test Method: METHOD 9
 Monitoring Frequency: SEMI-ANNUALLY
 Averaging Method: 6 MINUTE AVERAGE
 Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
 Reports due 30 days after the reporting period.
 Subsequent reports are due every 6 calendar month(s).

Condition 146: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 231-1.4

Item 146.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 146.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
 Monitoring Description:

(a) The emissions from any air contamination source project subject to this Subpart must meet the lowest achievable emission rate as defined in Part 200 of this Title.

(b) Any source owner subject to this Subpart must submit information to establish that the lowest achievable emission rate will be applied when an application is submitted for a permit to construct.

Reference Test Method: KEEP RECORDS
 Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
 Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 147: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 231-1.6

Item 147.1:

The Compliance Demonstration activity will be performed for the Facility.

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Item 147.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

- (a) An application for a permit to construct for an air contamination source project applicable to this Subpart must include an air quality impact evaluation.
- (b) If the air contamination source project includes proposed emissions of particulates, sulfur dioxide, carbon monoxide and/or nitrogen oxides which exceed the DE MINIMIS emission limits shown in section 231-1.9 of this Subpart, the air quality impact evaluation must show that the combined impact of the proposed new emissions and the emission offsets will not exceed the significant impacts shown in section 231-1.10 of this Subpart.
- (c) The applicant for a permit to construct an air contamination source project applicable to this Subpart must conduct the air quality impact evaluation, and prepare a report in accordance with procedures acceptable to the commissioner.

Reference Test Method: Keep Records of Fuel

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 148: CO2 Budget Trading Program - Excess emission requirements Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 242-1.5

Item 148.1:

The owners and operators of a CO2 budget source that has excess emissions in any control period shall:

- (1) forfeit the CO2 allowances required for deduction under 6 NYCRR Part 242-6.5(d)(1), provided CO2 offset allowances may not be used to cover any part of such excess emissions; and
- (2) pay any fine, penalty, or assessment or comply with any other remedy imposed under 6 NYCRR Part 242-6.5(d)(2).

Condition 149: Compliance Demonstration Effective for entire length of Permit

Applicable State Requirement:6 NYCRR 242-1.5

Item 149.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 149.2:

Compliance Demonstration shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owners and operators and, to the extent applicable, the CO₂ authorized account representative of each CO₂ budget source and each CO₂ budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO₂ requirements:

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

(2) Each ton of CO₂ emitted in excess of the CO₂ budget emissions limitation shall constitute a separate violation of this Part and applicable state law.

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

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

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

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

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such authorization.

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

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

**Condition 150: Compliance Demonstration
Effective for entire length of Permit**

Applicable State Requirement: 6 NYCRR 242-1.5

Item 150.1:

The Compliance Demonstration activity will be performed for the Facility.

Item 150.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

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

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

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

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

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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.

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

Condition 151: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 242-8.5

Item 151.1:

The Compliance Demonstration activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 151.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

6 NYCRR Part 242-8.5 Recordkeeping and Reporting:

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

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

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

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

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

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

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.

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

Condition 152: Compliance Demonstration

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Effective for entire length of Permit**Applicable State Requirement: 6 NYCRR 251.3 (b)****Item 152.1:**

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

Emission Unit: U-00001

Emission Unit: U-00002

Regulated Contaminant(s):

CAS No: 000124-38-9 CARBON DIOXIDE

Item 152.2:

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. Calpine (KIAC Cogeneration Plant -JFK Airport) 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. The facility may choose to change to the output-based limit by notifying the Department prior to January 1, 2021.
5. The facility shall monitor emissions of 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

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Emission Unit: U-00002 Emission Point: E0002
 Process: GT2

Emission Unit: U-00002 Emission Point: E0002
 Process: GT4

Emission Unit: U-00002 Emission Point: E0002
 Process: GT6

Emission Unit: U-00002 Emission Point: E0002
 Process: GT8

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

Item 153.2:

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 low sulfur distillate oil and is subject to 6 NYCRR Part 251, CO2 Performance Standards for Major Electric Generating Facilities.
2. The facility operates two (2) combustion gas turbines that are 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. Calpine (KIAC Cogeneration Plant-JFK Airport) 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. KIAC COgeneration Plant-JFK Airport 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

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alternative to using a Continuous Emission Monitoring System (CEMS) to measure CO₂ in 40 CFR 75.13(b), where 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 CO₂ mass emissions data and heat input data in a format appropriate for comparison to the applicable emission limit, in lb/WMh(gross) or lb/MMbtu heat input, for each calendar quarter. The facility chose to meet the lb/MMBtu limit. The reports to EPA shall be submitted in the manner specified in subpart H of 40 CFR part 75 and 40 CFR 75.64 and include all the data and information required in subpart H and G of 40 CFR part 75. Submit the Emission Monitoring data feedback reports received from the EPA Emissions Collection and Monitoring Plan System (ECMPS) to the Regional DEC office quarterly. These reports verify that data was submitted to EPA and include the hours of operation, heat input and CO₂ emissions. Reports are due within 30 days following the end of the calendar quarter. [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.

Reference Test Method: 40 CFR Part 75 Appendix G
Monitoring Frequency: HOURLY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

Condition 154: Compliance Demonstration
Effective for entire length of Permit

Applicable State Requirement: 6 NYCRR 251.6 (d)

Item 154.1:

The Compliance Demonstration activity will be performed for the Facility.

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

Item 154.2:

Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The owner or operator that utilizes vendor certified fuel receipts to monitor the Btu content of a fuel must maintain these receipts in a bound log book. The owner or operator must maintain all records associated with these

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requirements on site or at a location acceptable to the
Department for a minimum of five years.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
Subsequent reports are due every 3 calendar month(s).

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