PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6308-00096/00009
Mod 0 Effective Date: 03/01/2016 Expiration Date: 02/28/2021
Mod 1 Effective Date: 01/26/2018 Expiration Date: 02/28/2021

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

Contact: GREG PIKUL
CALPINE CORPORATION, ENVIRONMENTAL MANAGER
500 DELAWARE AVE STE 600
WILMINGTON, DE 19801
(302) 468-5311

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 2, Mod 1)

This application is a major modification to the Title V permit that was issued on 3/1/2016. This application is to amend the Title V Renewal #2 application for the Calpine JFK Energy Center (KIAC) Facility located in Jamaica, New York. This permit application reflects the addition of Emission Unit B-OILRS, which includes six existing emergency boilers 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.

DEC Permit Conditions
Renewal 2/Mod 1/FINAL
The Calpine JFK Energy Center (KIAC) Facility is a co-generation plant that is located in the middle of the central terminal area of the JFK International Airport, Building No. 49. The facility supplies electricity to the airport and the Consolidated Edison (Con Ed) Power Distribution Grid. The facility also supplies steam to the airport's central heating and refrigeration plant. The co-generation plant consists of two identical General Electric LM6000 PC Sprint gas combustion turbines, which are permitted to fire both natural gas and light distillate fuel oil.

As per the NYSDEC's request, Calpine Corporation (Calpine) is submitting this major modified application to incorporate six emergency boilers to Calpine's Title V Renewal # 2 for the JFK Energy Center (KIAC) facility. These boilers are owned by the Port Authority of New York /New Jersey (PANY / NJ) and operated by Calpine under the Certificate to Operate that were issued to the PANY / NJ since November 22, 1995.

Calpine is submitting this application to amend the issued (3/1/2016) Title V Renewal #2 permit to incorporate the six emergency boilers. These six 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 six boilers:

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Emission Point</th>
<th>Heat Input Capacity</th>
<th>Fuels Fired</th>
<th>Start-Up Date</th>
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<tbody>
<tr>
<td>HWG01</td>
<td>00015</td>
<td>40 MM Btu/hr</td>
<td>NG, AGK or #2 FO</td>
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<td>75 MM Btu/hr</td>
<td>NG AGK or #2 FO</td>
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<td>00020</td>
<td>60 MM Btu/hr</td>
<td>NG AGK or #2 FO</td>
<td>1-1-1961</td>
</tr>
</tbody>
</table>

KIAC Co-generation Plant - JFK Airport is a Title V an existing co-generation facility, operating several emission sources, which consists of two (2) identical General electric combustion turbines equipped with supplementary fired duct burners and heat recovery steam generators (HRSGs). The renewal permit covers the upgrades of the two combustion turbines from LM 6000 PA to LM 6000 PC Sprint units. This facility is not a PSD source.
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. The co-generation plant consists of two (2) General Electric LM6000 gas combustion turbines, which are permitted to fire both natural gas and light distillate fuel 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 light distillate oil (jet fuel with a maximum sulfur content of 0.091%) as the backup fuel. Light 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 NOx control and Selective Catalytic Reduction (SCR) as the secondary NOx control system, for both residual combustion turbine NOx and duct burner NOx reduction. The SCR catalyst as the dual function of CO oxidation to CO2 and NOx reduction to N2 and H2O. The KIAC Cogeneration facility operates and maintains Continuous Emission Monitors (CEM) and continuous data recorder NOx, 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).

The renewal #2 application splits the single emissions unit 1-OGTDB into 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:

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
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 NOx Lo CO controls and ammonia injectors (Emission Control SCR01) as the emission control. The combustion turbine is capable of firing either natural gas or light 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 light 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 NOx 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 NOx 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 light 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. 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 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 six boilers operate on natural gas (Processes BG1 & BG2), and Aviation-Grade Kerosene or jet fuel - AGK or #2 Fuel Oil - #2 FO (Processes BD1 & BD2). These boilers were previously included in permits for another facility. Upon the issuance of this Title V modification, the six emergency boilers will become part of the KIAC facility (which qualifies as a major source of NOx emissions), and will become subject to 6 NYCRR Part 227-2 which specifies the Reasonably Available Control Technology Requirements (RACT) for major facilities of Nitrogen Oxides (NOx). 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.

For those sources for which the owner or operator demonstrates that the applicable presumptive RACT emission limit of 0.08 pounds per million Btus for mid-size boilers operating on distillate oil (jet fuel)/natural gas in 6 NYCRR 227-2.4 (c)(1)(ii) is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic or technical feasibility must include, but is not limited, the evaluation of fuel switching, selective catalytic reduction or system averaging as compliance options. This alternative RACT emission limit must be approved by the Department and by the Administrator as a revision to the State Implementation Plan.

On May 15, 2017, the facility has submitted a NOx RACT variance analysis based on Air-Guide 20 "Economic and Technical Analysis for Reasonably Available Control Technology Networks" (i.e. when emitting NOx above 0.08 pounds per million Btus, but below 0.30 pounds per million Btus) to be approved for a Title V permit to operate the six mid-size emergency boilers (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06). The facility is requesting a variance on the six mid-size emergency boilers based on the lack of economic feasibility of $7,064 per ton of NOx reduced for LNB-FGR, and $7,345 per ton of NOx reduced for LNB only, which is much higher than the threshold of $5,000 per ton for NOx RACT. The variance is based on the stack testing results conducted in the report dated February 22, 2017.
Technologies that could meet the new NOx limits such as the use of low NOx burners (LNB) and Flue Gas Recirculation (FGR) would require significant capital investment and would not be cost-effective and would be counter-effective and counter-productive in the long term. The analysis concluded that no NOx control technologies were economically feasible for these six emergency boilers at the facility. This report was submitted to comply with a variance request to the NOx emission limits stated above pursuant to Part 621, Uniform Procedures act.

The facility demonstrates that the applicable presumptive RACT emission limit of 0.08 pounds per million Btus in 6 NYCRR 227-2.4(c)(1)(ii) is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic or technical feasibility must include, but is not limited, the evaluation of fuel switching, selective catalytic reduction or system averaging as compliance options. This alternative RACT emission limit must be approved by the Department and by the Administrator as a revision to the State Implementation Plan.

Once per permit term, the facility shall conduct NOx emission testing to verify that the actual NOx emissions from each boiler are less than 0.25 pounds of NOx per million Btus, while firing distillate oil, and less than 0.15 pounds of NOx 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 subdivision (a) of this section.

The facility has submitted a NOx RACT Variance application with this modification due to the lack of economic feasibility of $7,064 per ton of NOx reduced, which is much higher than the threshold of $5,000 per ton for NOx RACT.

Based on the NOx RACT evaluation dated May 15, 2017 and economic analysis, the facility is being granted a NOx RACT Variance of 0.15 pounds of NOx per million Btus for the six mid-size boilers, (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06) when operating on natural gas (Processes BG1 & BG2), and a NOx RACT Variance of 0.25 pounds of NOx per million Btus for the six mid-size boilers, (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06) when operating on distillate oil (Processes BD1 & BD2).
With the issuance of this permit modification, the facility has been granted a NOx RACT variance of 0.15 lbs/MM Btu NOx 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 NOx emission rate when operating on aviation-grade kerosene - AGK and jet fuel or #2 light distillate fuel oil - #2 fuel oil (Processes BD1 & BD2) as per 6 NYCRR 227-2.5 (c), instead of the 0.08 lbs/MM Btu NOx RACT required for 6 NYCRR 227-2.4 (c)(1)(ii) for mid-size boilers operating on distillate oil/gas.

The total NOx emissions for six emergency boilers are capped at 24 tons per year of NOx, 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. The permit application included a NOx RACT variance analysis based on Air Guide 20 to be approved for a Title V permit to operate these six emergency boilers at the stack tested rates (i.e. when emitting NOx above 0.08 lbs/MMBtu but below 3.0 lbs/MM Btu). The facility has been granted a variance on each of the six mid-size emergency boilers of 0.15 lbs/MM Btu NOx emission rate when operating on natural gas (Processes BG1 & BG2), and 0.25 lbs/MM Btu NOx emission rate when operating on aviation-grade kerosene - AGK and jet fuel or #2 light distillate fuel oil - #2 fuel oil (Processes BD1 & BD2). Compliance with this NOx emission limit for each boiler will be demonstrated and determined by a stack emission testing once during the term of the permit. Emissions will be calculated based on the most recent stack test result. KIAC will conduct emission stack testing once during the permit term to demonstrate compliance.

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 at KIAC use the low sulfur distillate fuel 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 fuel 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 for the current Title V permit for an existing cogeneration facility, and due to change of regulations by EPA, the following Cross-State Air Pollution Rule (CSAPR) conditions for NOx and SO2 Trading Programs, the following conditions have been added to the permit:

1. Condition # 109 for 40 CFR 97.406 for Transport Rule NOx Annual Trading Program, which provides for monitoring of annual oxides of nitrogen (NOx) emission allowances, and includes emission monitoring, record keeping, reporting and certification requirements for NOx.

2. Condition # 110 for 40 CFR 97.506 for Transport Rule NOx Ozone Season Trading Program, which provides for monitoring of oxides of nitrogen (NOx) emission allowances for the ozone season Trading Program, and includes emission monitoring, record keeping, reporting and certification requirements for NOx.

3. Condition # 111 for 40 CFR 97.606 for Transport Rule SO2 Group 1 Trading Program, which allows for monitoring of sulfur dioxide (SO2) emission allowances in the Group 1 Trading Program, and includes emission monitoring, record keeping, reporting and certification requirements for SO2.

4. Due to change of regulations by NYSDEC and EPA, the Clean Air Interstate Rule (CAIR) conditions for 6 NYCRR 243, 244 and 245 have been removed from the permit, they have been replaced by the 3 above conditions for Cross-State Air Pollution Rule. But Part 242 is RGGI (Regional Greenhouse Gas Initiative), which remains in effect, and therefore the condition for 6 NYCRR 242-8.5 remains in the permit. This Part establishes the New York State component of the CO2 Budget Trading Program, which is designed to stabilize and then reduce anthropogenic emissions of CO2, a greenhouse gas, from CO2 budget sources in an economically efficient manner. In addition, there is no state-wide allocation. The CAIR conditions required facilities to obtain/poses at least as many allocations of carbon dioxide (CO2), sulfur dioxide (SO2) and oxides of nitrogen as they emit to the atmosphere during a specified period of time. An allocation is a unit of pollution which is limited by a budget established by the regulations.
The Title V Permit contains a complete listing of the applicable Federal, State 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 using CEM. 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 subject to the general provisions, notifications, record keeping, performance tests, compliance and monitoring requirements of 40CFR 6-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 the Clean Air interstate Rule (CAIR) under regulations 6 NYCRR Part 242, which is RGGI (Regional Greenhouse Gas Initiative), and establishes the New York State component of the CO2 Budget Trading Program. Finally, 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, 40 CFR 97.506 for Transport Rule NOx Ozone Season Trading Program, and 40 CFR 97.606 for Transport Rule SO2 Group 1 Trading Program.

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 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 for each calendar quarter and 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), four (4) non-contact water cooling towers and water treatment systems for process cooling water, one (1) storage tank with capacity < 10,000 gallons and two (2) horizontal petroleum storage tanks.

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: ___ / ___ / _____
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.
LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions
Facility Inspection by the Department
Relationship of this Permit to Other Department Orders and Determinations
Applications for permit renewals, modifications and transfers
Applications for permit renewals, modifications and transfers
Permit modifications, suspensions or revocations by the Department

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

Expired by Mod No: 1

Item 3.1:
The permittee must submit a renewal application at least 180 days before expiration of permits for both 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.

Condition 1-1: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11
Item 1-1.1:
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 1-1.2:
The permittee must submit a renewal application at least 180 days before the expiration of permits for Title V and State Facility Permits.

Item 1-1.3
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.

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:

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

***** 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
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

Mod 0 Permit Effective Date: 03/01/2016  Permit Expiration Date: 02/28/2021
Mod 1 Permit Effective Date: 01/26/2018  Permit Expiration Date: 02/28/2021
LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

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<th>Condition</th>
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<tr>
<td>1  6 NYCRR 200.6: Acceptable Ambient Air Quality</td>
</tr>
<tr>
<td>2  6 NYCRR 201-6.4 (a) (7): Fees</td>
</tr>
<tr>
<td>3  6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring</td>
</tr>
<tr>
<td>4  6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement</td>
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FEDERALLY ENFORCEABLE CONDITIONS

**** 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
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;

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.

**Item K:** **Permit Exclusion - ECL 19-0305**
The issuance of this permit by the Department and the receipt thereof by the Applicant does not and shall not be construed as barring, diminishing, adjudicating or in any way affecting any legal, administrative or equitable rights or claims, actions, suits, causes of action or demands whatsoever that the Department may have against the Applicant for violations based on facts and circumstances alleged to have occurred or existed prior to the effective date of this permit, including, but not limited to, any enforcement action authorized pursuant to the provisions of applicable federal law, the Environmental Conservation Law of the State of New York (ECL) and Chapter III of the Official Compilation of the Codes, Rules and Regulations of the State of New York (NYCRR). The issuance of this permit also shall not in any way affect pending or future enforcement actions under the Clean Air Act brought by the United States or any person.

**Item L:** **Federally Enforceable Requirements - 40 CFR 70.6 (b)**
All terms and conditions in this permit required by the Act or any applicable requirement, including any provisions designed to limit a facility's potential to emit, are enforceable by the Administrator and citizens under the Act. The Department has, in this permit, specifically designated any terms and conditions that are not required under the Act or under any of its applicable requirements as being enforceable under only state regulations.

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

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

**Condition 1:** **Acceptable Ambient Air Quality**
Effective between the dates of 03/01/2016 and 02/28/2021

**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.

**Condition 2:** Fees

*Effective between the dates of 03/01/2016 and 02/28/2021*

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

**Item 2.1:**
The owner and/or operator of a stationary source shall pay fees to the Department consistent with the fee schedule authorized by ECL 72-0303.

**Condition 3:** Recordkeeping and Reporting of Compliance Monitoring

*Effective between the dates of 03/01/2016 and 02/28/2021*

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

**Item 3.1:**
The following information must be included in any required compliance monitoring records and reports:

(i) The date, place, and time of sampling or measurements;

(ii) The date(s) analyses were performed;

(iii) The company or entity that performed the analyses;

(iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;

(v) The results of such analyses including quality assurance data where required; and

(vi) The operating conditions as existing at the time of sampling or measurement.

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

**Condition 4:** Records of Monitoring, Sampling, and Measurement

*Effective between the dates of 03/01/2016 and 02/28/2021*

*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
Condition 5: Compliance Certification  
Effective between the dates of 03/01/2016 and 02/28/2021  

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 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.

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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 6: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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
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 – Stationary Source Compliance Section
USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

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  
Reporting Requirements: ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 1/30/2017.  
Subsequent reports are due on the same day each year  

**Condition 7:** Compliance Certification  
Effective between the dates of 03/01/2016 and 02/28/2021  

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

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

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

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

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

**Condition 8:** Recordkeeping requirements  
Effective between the dates of 03/01/2016 and 02/28/2021  

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

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

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

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

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.
**Condition 9:** Open Fires - Prohibitions  
**Effective between the dates of 03/01/2016 and 02/28/2021**

**Applicable Federal Requirement:** 6 NYCRR 215.2

**Item 9.1:**  
Except as allowed by Title 6 NYCRR Section 215.3, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

**Item 9.2:**  
Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:  
(a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.  
(b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.  
(c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is used as fuel and the fire is not left unattended until extinguished.  
(d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.  
(e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.  
(f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.  
(g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.  
(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.  
(i) Prescribed burns performed according to Part 194 of this Title.  
(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.  
(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.  
(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.
MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS
SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE

The following federally enforceable permit conditions are mandatory for all Title V permits and are subject to annual compliance certification requirements only if effectuated during the reporting period.

[NOTE: The corresponding annual compliance certification for those conditions not effectuated during the reporting period shall be specified as "not applicable".]

Condition 10: Maintenance of Equipment
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 200.7

Item 10.1:
Any person who owns or operates an air contamination source which is equipped with an emission control device shall operate such device and keep it in a satisfactory state of maintenance and repair in accordance with ordinary and necessary practices, standards and procedures, inclusive of manufacturer’s specifications, required to operate such device effectively.

Condition 11: Recycling and Salvage
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 201-1.7

Item 11.1:
Where practical, the owner or operator of an air contamination source shall recycle or salvage air contaminants collected in an air cleaning device according to the requirements of the ECL.

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 201-1.8

Item 12.1:
No person shall unnecessarily remove, handle or cause to be handled, collected air contaminants from an air cleaning device for recycling, salvage or disposal in a manner that would reintroduce them to the outdoor atmosphere.

Condition 13: Exempt Sources - Proof of Eligibility
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 13.1:
The owner or operator of an emission source or activity that is listed as being exempt may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all records necessary
for demonstrating compliance with this Subpart on-site for a period of five years, and make them available to representatives of the department upon request.

**Condition 14: Trivial Sources - Proof of Eligibility**

*Effective between the dates of 03/01/2016 and 02/28/2021*

**Applicable Federal Requirement:** 6 NYCRR 201-3.3 (a)

**Item 14.1:**
The owner or operator of an emission source or activity that is listed as being trivial in this Section may be required to certify that it is operated within the specific criteria described in this Subpart. The owner or operator of any such emission source or activity must maintain all required records on-site for a period of five years and make them available to representatives of the department upon request.

**Condition 15: Requirement to Provide Information**

*Effective between the dates of 03/01/2016 and 02/28/2021*

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

**Item 15.1:**
The owner and/or operator shall furnish to the department, within a reasonable time, any information that the department may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the department copies of records required to be kept by the permit or, for information claimed to be confidential, the permittee may furnish such records directly to the administrator along with a claim of confidentiality, if the administrator initiated the request for information or otherwise has need of it.

**Condition 1-1: Right to Inspect**

*Effective between the dates of 01/26/2018 and 02/28/2021*

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

**Item 1-1.1:**
The department or an authorized representative shall be allowed upon presentation of credentials and other documents as may be required by law to:

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

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

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

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

**Condition 17:**  
**Off Permit Changes**  
*Effective between the dates of 03/01/2016 and 02/28/2021*  

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

**Item 17.1:**  
No permit revision will be required for operating changes that contravene an express permit term, provided that such changes would not violate applicable requirements as defined under this Part or contravene federally enforceable monitoring (including test methods), recordkeeping, reporting, or compliance certification permit terms and conditions. Such changes may be made without requiring a permit revision, if the changes are not modifications under any provision of title I of the act and the changes do not exceed the emissions allowable under the permit (whether expressed therein as a rate of emissions or in terms of total emissions) provided that the facility provides the administrator and the department with written notification as required below in advance of the proposed changes within a minimum of seven days. The facility owner or operator, and the department shall attach each such notice to their copy of the relevant permit.

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

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

**Condition 18:**  
**Required Emissions Tests**  
*Effective between the dates of 03/01/2016 and 02/28/2021*  

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

**Item 18.1:**  
For the purpose of ascertaining compliance or non-compliance with any air pollution control code, rule or regulation, the commissioner may require the person who owns such air contamination source to submit an acceptable report of measured emissions within a stated time.

**Condition 19:**  
**Accidental release provisions.**  
*Effective between the dates of 03/01/2016 and 02/28/2021*  

**Applicable Federal Requirement:** 40 CFR Part 68

**Item 19.1:**  
If a chemical is listed in Tables 1,2,3 or 4 of 40 CFR §68.130 is present in a process in quantities greater than the threshold quantity listed in Tables 1,2,3 or 4, the following requirements will apply:
a) The owner or operator shall comply with the provisions of 40 CFR Part 68 and;

b) The owner or operator shall submit at the time of permit issuance (if not previously submitted) one of the following, if such quantities are present:

1) A compliance schedule for meeting the requirements of 40 CFR Part 68 by the date provided in 40 CFR §68.10(a) or,

2) A certification statement that the source is in compliance with all requirements of 40 CFR Part 68, including the registration and submission of the Risk Management Plan. Information should be submitted to:

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

Condition 20: Recycling and Emissions Reduction
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 82, Subpart F

Item 20.1:
The permittee shall comply with all applicable provisions of 40 CFR Part 82.

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

Condition 21: Emission Unit Definition
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 21.1(From Mod 1):
The facility is authorized to perform regulated processes under this permit for:
Emission Unit: B-OILRS
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.

  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:

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Emission Point</th>
<th>Heat Input Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWG01</td>
<td>00015</td>
<td>40 MM Btu/hr</td>
</tr>
<tr>
<td>HWG02</td>
<td>00016</td>
<td>40 MM Btu/hr</td>
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<tr>
<td>HWG06</td>
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<td>60 MM Btu/hr</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Source</th>
<th>Fuels Fired</th>
<th>Start-Up Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>HWG01</td>
<td>NG, AGK or #2 FO</td>
<td>1-1-1987</td>
</tr>
<tr>
<td>HWG02</td>
<td>NG, AGK or #2 FO</td>
<td>1-1-1956</td>
</tr>
<tr>
<td>HWG03</td>
<td>NG, AGK or #2 FO</td>
<td>1-1-1956</td>
</tr>
<tr>
<td>HWG04</td>
<td>NG, AGK or #2 FO</td>
<td>1-1-1987</td>
</tr>
<tr>
<td>HWG05</td>
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</tr>
<tr>
<td>HWG06</td>
<td>NG, AGK or #2 FO</td>
<td>1-1-1961</td>
</tr>
</tbody>
</table>
AGK is Aviation-Grade Kerosene, and #2 FO is #2 Fuel Oil

The six boilers operate on natural gas (Processes BG1 & BG2), Aviation-Grade Kerosene or jet fuel - AGK and #2 Fuel Oil - #2 FO (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 21.2 (From Mod 1):**
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 light 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.

Building(s): COGENB

**Item 21.3 (From Mod 1):**
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 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 light 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.

Building(s): COGENB

Condition 22: Progress Reports Due Semiannually
Effective between the dates of 03/01/2016 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 201-6.4 (d) (4)

Item 22.1:
Progress reports consistent with an applicable schedule of compliance are to be submitted at least semiannually, or at a more frequent period if specified in the applicable requirement or by the department. Such progress reports shall contain the following:

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

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

Condition 1-2: Non Applicable requirements
Effective between the dates of 01/26/2018 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 201-6.4 (g)

Item 1-2.1:
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.

(From Mod 1) 6 NYCRR 227-1.4 (a)
Reason: KIAC is not required to install or maintain a continuous opacity monitor (COM) for monitoring the opacity. This is 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.

6 NYCRR Subpart 231-2
Reason: New Source Review, 6 NYCRR 231-2:

On November 22, 1995, the NYSDEC issued Certificates to Operate to the PANY / NJ for each of the six boilers.

For each of the prior PANY / NJ Certificates to Operate, the NYSDEC added Special Permit Conditions which limited the total emissions from the six emergency boilers at the facility to 24 tons per year of Nitrogen Oxides (NOx). Calpine has operated these six boilers on behalf of the PANY / NJ.

Upon the request of the NYSDEC, these six emergency boilers are being added to Calpine's Title V Renewal #2 permit for the KIAC facility. Calpine will continue to operate the six boilers.

With this emission limitation, the addition of the previously permitted six emergency boilers to the Title V permit for the KIAC facility does not qualify as a "modification" as defined under 6 NYCRR Subpart 231-4 (New Source Review). Therefore; this project is not subject to New Source Review, 6 NYCRR 231-2.

40 CFR 52.21 (j)
Reason: PSD (Prevention of Significant Deterioration),
40 CFR 52.21 (j):

On November 22, 1995, the NYSDEC issued Certificates to Operate to the PANY / NJ for each of the six boilers.

For each of the prior PANY / NJ Certificates to Operate, the NYSDEC added Special Permit Conditions which limited the total emissions from the six emergency boilers at the facility to 24 tons per year of Nitrogen Oxides (NOx). Calpine has operated these six boilers on behalf of the PANY / NJ.

Upon the request of the NYSDEC, these six emergency boilers are being added to Calpine's Title V Renewal #2 permit for the KIAC facility. Calpine will continue to operate the six boilers.

With this emission limitation, the addition of the previously permitted to operate six emergency boilers, to the Title V permit for the KIAC facility does not qualify as a "modification" as defined under the federal NSR program rules of 40 CFR 52.21 and 52.24 (k). Therefore; this project is not subject to Prevention of Significant Deterioration (PSD) - 40 CFR 52.21 (j).
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).

**Condition 23:** Facility Permissible Emissions
Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 6 NYCRR Subpart 201-7

**Item 23.1:**
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 (From Mod 1) PTE: 206,000 pounds per year
  Name: CARBON MONOXIDE

- CAS No: 0NY210-00-0 (From Mod 1) PTE: 1,602,000 pounds per year
  Name: OXIDES OF NITROGEN

**Condition 1-3:** Capping Monitoring Condition
Effective between the dates of 01/26/2018 and 02/28/2021

**Applicable Federal Requirement:** 6 NYCRR Subpart 201-7

**Item 1-3.1:**
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 1-3.2:**
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 1-3.3:**
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 1-3.4:**
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 1-3.5:**
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 1-3.6:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

- Emission Unit: U-00001 Emission Point: E0001 Emission Source: DB001
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: GT001
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: SCR01
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: DB001
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: GT001
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: SCR01
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: GT001
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: SCR01
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: GT001
- Emission Unit: U-00001 Emission Point: E0001 Emission Source: SCR01
- Emission Unit: U-00002 Emission Point: E0002 Emission Source: DB002
Air Pollution Control Permit Conditions

Regulated Contaminant(s):

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

Item 1-3.7:
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 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.
The initial report is due 1/30/2019.
Subsequent reports are due every 12 calendar month(s).

**Condition 1-4:** Capping Monitoring Condition
**Effective between the dates of 01/26/2018 and 02/28/2021**

**Applicable Federal Requirement:** 6 NYCRR Subpart 201-7

**Item 1-4.1:**
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 1-4.2:**
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

**Item 1-4.3:**
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 1-4.4:**
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 1-4.5:**
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 1-4.6:**
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

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<table>
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<th>Emission Unit:</th>
<th>Emission Point:</th>
<th>Process:</th>
<th>Emission Source:</th>
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<tr>
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<td>U-00001</td>
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Air Pollution Control Permit Conditions

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

Item 1-4.7:
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.
   The initial report is due 1/30/2019.
   Subsequent reports are due every 12 calendar month(s).

Condition 1-5: Capping Monitoring Condition
   Effective between the dates of  01/26/2018 and 02/28/2021

   Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-5.1:
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 1-5.2:
Operation of this facility shall take place in accordance with the approved criteria, emission limits, terms, conditions and standards in this permit.

Item 1-5.3:
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 1-5.4:
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 1-5.5:
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 1-5.6:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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

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

Item 1-5.7:
Compliance Certification shall include the following monitoring:

- **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:

\[
MN = \text{Monthly Emissions of NOx from Boiler when firing Natural Gas (tons/month)} = (Q_N) (1,020 \text{ MMBtu/Mscf}) (\text{EF}_N) \quad [\text{ton / 2000 lb}]
\]

Where,
- \(Q_N\) = Quantity of Natural Gas burned in Boiler in Mscf/month,
- \(\text{EF}_N\) = 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.

\[
MD = \text{Monthly Emissions of NOx from Boiler when firing Light Distillate (tons/month)} = (Q_L) (135 \text{ MMBtu/Kgal}) (\text{EF}_L) \quad [\text{ton / 2000 lb}]
\]

Where
- \(Q_L\) = Quantity of Light Distillate burned in Boiler in Kgal/month,
- \(\text{EF}_L\) = 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.

\[
MT = \text{Total Monthly Emissions of NOx from Boiler} = MN + MD
\]

\[
\text{MA} = \text{Total Monthly Emissions of NOx from All Boilers} = \sum \{MT \text{ for all boilers}\}
\]

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

Records of monthly NOx 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 NOx emissions from each
boiler for the month, total NOx emissions from all
boilers, and the 12-month rolling total NOx 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.
The initial report is due 1/30/2019.
Subsequent reports are due every 12 calendar month(s).

**Condition 24:** Capping Monitoring Condition
Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 6 NYCRR Subpart 201-7

**Item 24.1:**
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 24.2:**
Operation of this facility shall take place in accordance with the approved criteria, emission
limits, terms, conditions and standards in this permit.

**Item 24.3:**
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 24.4:**
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 24.5:**
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 24.6:**
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-00001
  - Emission Point: E0001
  - Process: GT3
  - Emission Source: DB001

- 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: 000630-08-0 CARBON MONOXIDE
- CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 24.7:**
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 mmBTU/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 mmBTU/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
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 25: Prohibitions
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 202-1.5

Item 25.1:
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 26: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR Subpart 202-2

Item 26.1:
The Compliance Certification activity will be performed for the Facility.

Item 26.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
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

<table>
<thead>
<tr>
<th>Air Contaminant</th>
<th>Threshold (tons/year)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volatile organic Compounds (VOC)</td>
<td>25</td>
</tr>
</tbody>
</table>
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 (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.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 1-6: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 207.2

Item 1-6.1:
The Compliance Certification activity will be performed for the Facility.

Item 1-6.2:
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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 28: Air pollution prohibited**

Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 6 NYCRR 211.1

**Item 28.1:**

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 29: Compliance Certification**

Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 6 NYCRR 211.1

**Item 29.1:**

The Compliance Certification activity will be performed for the Facility.

**Item 29.2:**

Compliance Certification 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,
Air Pollution Control Permit Conditions

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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 30: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 30.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>DB001</td>
</tr>
<tr>
<td>GT3</td>
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</tbody>
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<th>Emission Source</th>
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<th>Emission Source</th>
</tr>
</thead>
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<tr>
<td>U-00001</td>
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<td>SCR01</td>
</tr>
<tr>
<td>GT3</td>
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<th>Emission Source</th>
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</thead>
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<td>U-00002</td>
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<td>DB002</td>
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<td>GT4</td>
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<td>E0002</td>
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</thead>
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<td>SCR02</td>
</tr>
<tr>
<td>GT4</td>
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</tbody>
</table>

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

Item 30.2:
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 light distillate fuel 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

**Condition 31:** Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 6 NYCRR 212.4 (a)

**Item 31.1:**
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
Item 31.2:
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 6.61 pounds per hour, on an hourly average basis during natural gas 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 natural gas in the combustion turbine and no duct burner unit.

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

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 6.61 pounds per hour
Reference Test Method: 40 CFR Parts 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).
Condition 32:  Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 32.1:
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: 007664-41-7  AMMONIA

Item 32.2:
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 light distillate fuel firing.

KIAC will use CEMS to monitor the NOx emission at the stack.
Records shall be maintained at the facility for a minimum of five years.

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 33: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 33.1: 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: 007664-41-7 AMMONIA

Item 33.2: 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 34: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 34.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Process</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT3</td>
<td>DB001</td>
</tr>
</tbody>
</table>
Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

Item 34.2:
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 9.25 pounds per hour, 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 light distillate fuel 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.

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 35: **Compliance Certification**
**Effective between the dates of 03/01/2016 and 02/28/2021**

**Applicable Federal Requirement:** 6 NYCRR 212.4 (a)

**Item 35.1:**
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:** 007664-41-7
- **AMMONIA**

**Item 35.2:**
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 6.67 pounds per hour, on an hourly average basis during light 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 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.

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 36.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT5</td>
<td>Emission Source: GT001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT5</td>
<td>Emission Source: SCR01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT6</td>
<td>Emission Source: GT002</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT6</td>
<td>Emission Source: SCR02</td>
</tr>
</tbody>
</table>

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

Item 36.2:
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 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 37: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 212.4 (a)

Item 37.1:
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
Regulated Contaminant(s):
CAS No: 007664-41-7 AMMONIA

**Item 37.2:**
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 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.

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 1-7: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 225-1.2

Item 1-7.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 1-7.2:
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 distillate fuel oil #1 (Jet fuel):.

1. KIAC shall maintain fuel supplier certifications received for each delivery of distillate oil. These certifications shall reflect the sulfur content, specific gravity, and heating value of the distillate oil.

2. KIAC shall sample every delivery of 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.

3. Data collected pursuant to (1) and (2) 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. 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 fuel 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 fuel 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 and six emergency boilers; 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.

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 distillate fuel oil (jet fuel with a maximum sulfur content is 0.091%) for its operation.

All records must be maintained at the facility for a period of five (5) 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 1-8:** Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-8.1:**
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

- **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
Item 1-8.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
 Owners and/or operators of commercial, industrial, or residential emission sources that fire #2 heating oil on or after July 1, 2012 are limited to the purchase of number two heating oil with 0.0015 percent sulfur by weight or less. Compliance with this limit will be based on vendor certifications.

Data collected pursuant to this Subpart 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 records must be maintained at the facility for a minimum of five (5) 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 1-9: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-9.1:
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

- 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 1-9.2:**

Compliance Certification shall include the following monitoring:

**Monitoring Type:** WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

**Monitoring Description:**

Owners and/or operators of a stationary combustion installations that fire distillate oil (# 2 fuel oil) are limited to the firing of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2016.
Compliance with this limit will be based on vendor certifications.

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

All records must be maintained at the facility 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 1-10: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-10.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001

Emission Unit: U-00002

Item 1-10.2:
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 for each calendar quarter and 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 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 43: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 225-1.6

Item 43.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 43.2:
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 distillate oil; and

(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 exceedances takes place.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 45: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 227-1.2

**Item 45.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT3</td>
<td>Emission Source: SCR01</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT7</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT7</td>
<td>Emission Source: SCR01</td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
</tr>
<tr>
<td>Process: GT4</td>
<td>Emission Source: GT002</td>
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<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
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<tr>
<td>Process: GT4</td>
<td>Emission Source: SCR02</td>
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<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
</tr>
<tr>
<td>Process: GT8</td>
<td>Emission Source: GT002</td>
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<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
</tr>
<tr>
<td>Process: GT8</td>
<td>Emission Source: SCR02</td>
</tr>
</tbody>
</table>

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

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

Monitoring Type: INTERMITTENT EMISSION TESTING
Monitoring Description:
Particulate Matter emission limit of 0.10 lb/MM Btu.

KIAC is required to conduct the two-hour average emission of particulates from this stationary combustion installations only if the facility operates on the distillate oil (Processes GT3, GT4, GT7 & GT8) during the term of the permit.

Records shall be maintained at the facility for a minimum of five years.
Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.10 pounds per million Btus
Reference Test Method: EPA Method 5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-11: Compliance Certification**
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-11.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: DB001</th>
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</thead>
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<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
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<tr>
<td>Process: GT1</td>
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<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
<td>Emission Source: SCR01</td>
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<tr>
<td>Process: GT5</td>
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<td></td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: DB002</td>
</tr>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: GT002</td>
</tr>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: SCR02</td>
</tr>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: SCR02</td>
</tr>
<tr>
<td>Process: GT6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Item 1-11.2:**
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.

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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).
Condition 1-12: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 227-1.3 (a)

Item 1-12.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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

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

Item 1-12.2:
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 six emergency boilers when firing natural gas, distillate fuel oil (#2 fuel oil) or jet fuel oil (#1 fuel 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.

If distillate oil is fired in the six emergency boilers during the semi-annual period, KIAC shall conduct a semi-annual Method 9 observation when firing distillate fuel oil during the semi-annual period. 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 observations of visible emissions from the emission unit, process, etc. to which this condition applies at the monitoring frequency stated 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-13:** Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-13.1:**
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
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: 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

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: 0NY075-00-0   PARTICULATES

**Item 1-13.2:**
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 distillate fuel oil (#2 fuel oil) or jet fuel oil (#1 fuel 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 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 49: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 227-1.4 (d)

Item 49.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point:</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
</tr>
</tbody>
</table>

Item 49.2:
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 DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 1-14: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 227-1.7

Item 1-14.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td>Emission Source: DB001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td>Emission Source: SCR01</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT3</td>
<td>Emission Source: DB001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT3</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT3</td>
<td>Emission Source: SCR01</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT5</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT5</td>
<td>Emission Source: SCR01</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT7</td>
<td>Emission Source: GT001</td>
</tr>
</tbody>
</table>
Item 1-14.2:
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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-15: Compliance Certification**

Effective between the dates of 01/26/2018 and 02/28/2021

**Applicable Federal Requirement: 6 NYCRR 227-1.7**

**Item 1-15.1:**

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

- Emission Unit: B-OILRS
  - Emission Point: 00015
  - Emission Source: HWG01

- Emission Unit: B-OILRS
  - Emission Point: 00016
  - Emission Source: HWG02

- Emission Unit: B-OILRS
  - Emission Point: 00017
  - Emission Source: HWG03

- Emission Unit: B-OILRS
  - Emission Point: 00018
  - Emission Source: HWG04

- Emission Unit: B-OILRS
  - Emission Point: 00019
  - Emission Source: HWG05

- Emission Unit: B-OILRS
  - Emission Point: 00020
  - Emission Source: HWG06

- Emission Unit: B-OILRS
  - Emission Point: 00015
  - Emission Source: HWG01

- Emission Unit: B-OILRS
  - Emission Point: 00016
  - Emission Source: HWG02

- Emission Unit: B-OILRS
  - Emission Point: 00017
  - Emission Source: HWG03

- Emission Unit: B-OILRS
  - Emission Point: 00018
  - Emission Source: HWG04

- Emission Unit: B-OILRS
  - Emission Point: 00019
  - Emission Source: HWG05

- Emission Unit: B-OILRS
  - Emission Point: 00020
  - Emission Source: HWG06

- Emission Unit: B-OILRS
  - Emission Point: 00015
  - Emission Source: HWG01
Emission Unit: B-OILRS  Emission Point: 00017  Emission Source: HWG03
Process: BG1

Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG1

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG1

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG1

Emission Unit: B-OILRS  Emission Point: 00015  Emission Source: HWG01
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00016  Emission Source: HWG02
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00017  Emission Source: HWG03
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG2

**Item 1-15.2:**
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, composting 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).
Condition 1-16: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-16.1:
The Compliance Certification activity will be performed for the facility: The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Process</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT1</td>
<td>DB001</td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT1</td>
<td>GT001</td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT1</td>
<td>SCR001</td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT5</td>
<td>GT001</td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT5</td>
<td>SCR001</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT2</td>
<td>DB002</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT2</td>
<td>GT002</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT2</td>
<td>SCR002</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT6</td>
<td>GT002</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT6</td>
<td>SCR002</td>
</tr>
</tbody>
</table>

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

Item 1-16.2:
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.

In accordance with the NOx RACT Compliance Plan submitted on 11/8/2012, the proposed NOx 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 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. In accordance with section 227-2.6(a)(4), NOx emissions must be measured with a CEMS.

In accordance with section 227-2.6 (b) (3)(ii) (a) and (b), the averaging method is to be calculated as:

(a) block hourly arithmetic average emission rates using data points generated by CEMS and expressed in terms of parts per million on a dry volume basis, corrected to 15 percent oxygen; and

(b) block hourly arithmetic average emission rates for the periods starting 12:00 AM to 1:00 AM, 1:00 AM to 2:00 AM, and so on.

The duct burner will never operate without its corresponding combustion turbine.

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 KKKK 4400, and with 6 NYCRR 227-2.6(a)(2) and (b).

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

Manufacturer Name/Model Number: CEMS for NOx and O2
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 60 Appendices B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR BLOCK AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

**Condition 1-17: Compliance Certification**
**Effective between the dates of 01/26/2018 and 02/28/2021**

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

**Item 1-17.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Emission Unit: U-00001</td>
<td>Process: GT7</td>
<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Process: GT8</td>
<td>Emission Point: E0002</td>
<td>Emission Source: SCR02</td>
</tr>
</tbody>
</table>

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

**Item 1-17.2:**
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 # 2 distillate fuel oil (Processes GT3 & GT4) with its corresponding duct burner (Emission Controls DB001 & DB002), and # 2 distillate fuel oil (Processes GT7 & GT8) without its corresponding duct burner and is applicable beginning July 1, 2014.

In accordance with the NOx RACT Compliance Plan submitted on 11/8/2012, the proposed NOx 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 # 2 distillate fuel 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 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. In accordance with section 227-2.6(a)(4), NOx emissions must be measured with a CEMS.

In accordance with section 227-2.6 (b) (3)(ii) (a) and (b), the averaging method is to be calculated as:

(a) block hourly arithmetic average emission rates using data points generated by CEMS and expressed in terms of parts per million on a dry volume basis, corrected to 15 percent oxygen; and

(b) block hourly arithmetic average emission rates for the periods starting 12:00 AM to 1:00 AM, 1:00 AM to 2:00 AM, and so on.

The duct burner will never operate without its corresponding combustion turbine.

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 KKKK 4400, and with 6 NYCRR 227-2.6(a)(2) and (b).

Manufacturer Name/Model Number: CEMS for NOx and O2
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 18.00 parts per million by volume
(dry, corrected to 15% O2)
Reference Test Method: 40 CFR 60 Appendices B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR BLOCK AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-18: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-18.1:
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
Process: BD2  Emission Source: HWG06

Process: BG1  Emission Source: HWG01

Emission Unit: B-OILRS Emission Point: 00015

Emission Unit: B-OILRS Emission Point: 00016

Emission Unit: B-OILRS Emission Point: 00017

Emission Unit: B-OILRS Emission Point: 00018

Emission Unit: B-OILRS Emission Point: 00019

Emission Unit: B-OILRS Emission Point: 00020

Emission Unit: B-OILRS Emission Point: 00015

Emission Unit: B-OILRS Emission Point: 00016

Emission Unit: B-OILRS Emission Point: 00017

Emission Unit: B-OILRS Emission Point: 00018

Emission Unit: B-OILRS Emission Point: 00019

Emission Unit: B-OILRS Emission Point: 00020

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

Item 18.2:
Compliance Certification shall include the following monitoring:

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

Monitoring Description:
On May 15, 2017, the facility submitted a NOx 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 NOx 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 NOx/MMBtu of heat input) and source testing requirements are described in other permit conditions.

In order to maintain compliance with the Part 227-2 NOx RACT requirements for the six emergency boilers (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 and HWG06), the total 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:

\[
M_N = \text{Monthly Emissions of NOx from Boiler when firing Natural Gas (tons/month)} = (Q_N) \times (1020 \text{ MMBtu/Mscf}) \times (EF_N) \times \frac{\text{ton}}{2000 \text{ lb}}
\]

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 test of the boiler or a representative boiler at the facility that has the same equipment manufacturer, make and model number.

\[
M_D = \text{Monthly Emissions of NOx from Boiler when firing Light Distillate (tons/month)} = (Q_L) \times (135 \text{ MMBtu/Kgal}) \times (EF_L) \times \frac{\text{ton}}{2000 \text{ lb}}
\]

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 test of the boiler or a representative boiler at the facility that has the same equipment manufacturer, make and model number.
KIAC shall calculate the total monthly NOx emissions for each boiler (M_T) 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 (M_All). A 12-month rolling total of NOx emissions for all six boilers shall be calculated each month.

Records of monthly NOx 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 NOx emissions from each boiler for the month, total NOx emissions from all boilers, and the 12-month rolling total NOx 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.
The initial report is due 1/30/2019.
Subsequent reports are due every 12 calendar month(s).

Condition 1-19: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-19.1: 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 1-19.2:
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 Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06), to verify compliance with an emission limit of 0.25 lb NOx/MMBtu of heat input while firing distillate oil. This emission limitation is based upon a Part 227-2 NOx RACT Evaluation for the six boilers that was submitted in May 2017.
Once per permit term, the facility shall conduct NOx emission testing to verify that the actual NOx emissions from each boiler are less than or equal to 0.25 pounds of NOx 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 NOx 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 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 DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

**Condition 1-20:** Compliance Certification

*Effective between the dates of 01/26/2018 and 02/28/2021*

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

**Item 1-20.1:**
The Compliance Certification activity will be performed for the facility: The Compliance Certification applies to:

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

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

**Item 1-20.2:**
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 Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06), to verify compliance with the alternative emission limit of 0.15 lb NOx/MMBtu of heat input while firing natural gas. This emission limitation is based upon a Part 227-2 NOx 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 per permit term, the facility shall conduct NOx emission testing to verify that the actual NOx emissions from each boiler are less than or equal to 0.15 pounds of NOx 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 NOx 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
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 DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST
METHOD INDICATED
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 55: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR 227-2.6

Item 55.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:


Regulated Contaminant(s):
- CAS No: 0NY210-00-0 OXIDES OF NITROGEN
Item 55.2:
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.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 1-21:  Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-21.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td>Emission Source: DB001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT3</td>
<td>Emission Source: DB001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
<tr>
<td>Process: GT3</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
</tr>
</tbody>
</table>
Air Pollution Control Permit Conditions

Permit ID: 2-6308-00096/00009
Facility DEC ID: 2630800096

New York State Department of Environmental Conservation

Process: GT5  Emission Source: GT001
Emission Unit: U-00001  Emission Point: E0001
Process: GT7  Emission Source: GT001
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: GT4  Emission Source: DB002
Emission Unit: U-00002  Emission Point: E0002
Process: GT4  Emission Source: GT002
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 1-21.2:**
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, NOx 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.
The initial report is due 1/30/2019.
Subsequent reports are due every 12 calendar month(s).

**Condition 1-22:** Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-22.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001  Emission Point: E0001

Page 84  FINAL
Process: GT1  Emission Source: DB001
Emission Unit: U-00001  Emission Point: E001
Emission Source: GT001
Process: GT1  Emission Source: GT001
Emission Unit: U-00001  Emission Point: E001
Emission Source: DB001
Process: GT3  Emission Source: DB001
Emission Unit: U-00001  Emission Point: E001
Emission Source: GT001
Process: GT3  Emission Source: GT001
Emission Unit: U-00001  Emission Point: E001
Emission Source: DB001
Process: GT5  Emission Source: GT001
Emission Unit: U-00001  Emission Point: E001
Emission Source: GT001
Process: GT7  Emission Source: GT001
Emission Unit: U-00001  Emission Point: E001
Emission Source: GT001
Process: GT2  Emission Source: DB002
Emission Unit: U-00002  Emission Point: E002
Emission Source: GT002
Process: GT2  Emission Source: GT002
Emission Unit: U-00002  Emission Point: E002
Emission Source: DB002
Process: GT4  Emission Source: GT002
Emission Unit: U-00002  Emission Point: E002
Emission Source: GT002
Process: GT4  Emission Source: GT002
Emission Unit: U-00002  Emission Point: E002
Emission Source: DB002
Process: GT6  Emission Source: GT002
Emission Unit: U-00002  Emission Point: E002
Emission Source: GT002
Process: GT8  Emission Source: GT002
Emission Unit: U-00002  Emission Point: E002
Emission Source: GT002

Item 1-22.2:
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).
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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-23: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-23.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
<th>Emission Source: HWG01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD1</td>
<td></td>
<td></td>
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</tbody>
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<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00016</th>
<th>Emission Source: HWG02</th>
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</thead>
<tbody>
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<td>Process: BD1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
<th>Emission Source: HWG03</th>
</tr>
</thead>
<tbody>
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<td>Process: BD1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00018</th>
<th>Emission Source: HWG04</th>
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<tr>
<td>Process: BD1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Air Pollution Control Permit Conditions

Item 1-23.2:
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 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 these six boilers only if the facility operates them on the jet fuel (#1 distillate oil) - Processes BD1 & BD2 during the term of the permit.

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: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Averaging Method: MAXIMUM - NOT TO EXCEED STATED VALUE - SEE MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 57: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 57.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
</tr>
</thead>
<tbody>
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<td>E0002</td>
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<tr>
<td>Process: GT8</td>
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</tbody>
</table>

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

Item 57.2:
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 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 distillate oil (Processes GT3, GT4, GT7 & GT8). KIAC is required to conduct the two hour average emission of particulates from these two stationary combustion installations only if the facility operates on the distillate oil (Processes GT3, GT4, GT7, GT8) during the term of the permit.

Parameter Monitored: PARTICULATES
Upper Permit Limit: 0.10 pounds per million Btus
Reference Test Method: EPA Method 5
Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT
Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-24: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 1-24.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:
Item 1-24.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
The NOx emissions are limited to 32.48 pounds per hour, 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).

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

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

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 32.48 pounds per hour
Reference Test Method: 40 CFR Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018. Subsequent reports are due every 3 calendar month(s).

**Condition 1-25: Compliance Certification**
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-25.1:**
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 1-25.2:**
Compliance Certification shall include the following monitoring:

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

**Monitoring Description:**
The NOx emissions are limited to 16.10 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.
Records shall be maintained at the facility for a minimum of five years.

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 16.10 pounds per hour
Reference Test Method: 40 CFR Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

**Condition 1-26: Compliance Certification**

**Effective between the dates of 01/26/2018 and 02/28/2021**

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

**Item 1-26.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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

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

**Item 1-26.2:**
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
The CO emissions are limited to 8.00 pounds per hour, on
an hourly average basis during distillate oil firing in
the combustion turbine/HRSG and natural gas firing in the
Permit ID: 2-6308-00096/00009         Facility DEC ID: 2630800099

Air Pollution Control Permit Conditions

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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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 8.00 pounds per hour
Reference Test Method: 40 CFR Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-27: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-27.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Process</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>GT5</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>U-00001</td>
<td>GT5</td>
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<td>SCR01</td>
</tr>
<tr>
<td>U-00002</td>
<td>GT6</td>
<td>E0002</td>
<td>GT002</td>
</tr>
<tr>
<td>U-00002</td>
<td>GT6</td>
<td>E0002</td>
<td>SCR02</td>
</tr>
</tbody>
</table>
Regulated Contaminant(s):
CAS No: 000630-08-0 CARBON MONOXIDE

Item 1-27.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: CONTINUOUS EMISSION MONITORING (CEM)
Monitoring Description:
The CO emissions are limited to 5.20 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 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 5.20 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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-28: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-28.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001 Emission Point: E0001
Regulated Contaminant(s):
- CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-28.2:
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)(3), the NOx 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 NOx RACT Compliance Plan dated November, 2012, these operational limits shall constitute RACT for purposes of 6 NYCRR 227-2.4(e)(3).

CEMS are to be used to monitor the NOx 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 NOx emission at the stack.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 18.00 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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-29: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-29.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: DB001</th>
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</thead>
<tbody>
<tr>
<td>Process: GT3</td>
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</tbody>
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<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
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</thead>
<tbody>
<tr>
<td>Process: GT3</td>
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<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: SCR01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: DB002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: GT002</th>
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</thead>
<tbody>
<tr>
<td>Process: GT4</td>
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<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: SCR02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 1-29.2:
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 light distillate fuel 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 36.46 pounds per hour
Reference Test Method: 40 CFR Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

**Condition 1-30: Compliance Certification**
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-30.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Process: GT1</th>
<th>Emission Point: E0001</th>
<th>Emission Source: DB001</th>
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<tbody>
<tr>
<td>Emission Unit: U-00001</td>
<td>Process: GT1</td>
<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
</tr>
</tbody>
</table>

Regulated Contaminant(s):
Item 1-30.2:
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).

CEMS are to be used to monitor the NOx 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 NOx emission at the stack.

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-31: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-31.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td>Emission Source: DB001</td>
</tr>
</tbody>
</table>
### Air Pollution Control Permit Conditions

**Item 1-31.2:**
Compliance Certification shall include the following monitoring:

- **Monitoring Type:** CONTINUOUS EMISSION MONITORING (CEM)
- **Monitoring Description:**
  
  The CO emissions are limited to 8.00 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.

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

- **Manufacturer Name/Model Number:** CEMS
- **Parameter Monitored:** CARBON MONOXIDE
- **Upper Permit Limit:** 8.00 pounds per hour
- **Reference Test Method:** 40 CFR Part 60 Appendix B & F
- **Monitoring Frequency:** CONTINUOUS
- **Averaging Method:** 1-HOUR AVERAGE
- **Reporting Requirements:** QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

**Condition 1-32: Compliance Certification**

Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-32.1:**
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:** 000630-08-0
- **CARBON MONOXIDE**

**Item 1-32.2:**
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 unit while firing light distillate fuel oil.

The CO emissions are limited to 7.5 parts per million by volume (dry, corrected to 15% O2), on an hourly average basis during light distillate fuel oil firing in the combustion turbine and no duct burner. 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 CO emissions from the combustion turbine without duct burner unit during natural light distillate fuel oil firing in the combustion turbine and no duct burner unit.

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

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 7.50 parts per million by volume (dry, corrected to 15% O2)
Reference Test Method: 49 CFR Part 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-33: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-33.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: DB001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
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<td></td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Process: GT1</td>
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<td></td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
<td>Emission Source: SCR01</td>
</tr>
<tr>
<td>Process: GT1</td>
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<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: DB002</td>
</tr>
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<td>Process: GT2</td>
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<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: GT002</td>
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<tr>
<td>Process: GT2</td>
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<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: SCR02</td>
</tr>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 1-33.2:
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 NOx 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: CARBON MONOXIDE
Upper Permit Limit: 5.00 parts per billion 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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-34: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-34.1: The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Process</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>GT5</td>
<td>E0001</td>
<td>GT001</td>
</tr>
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<td>U-00001</td>
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<td>E0001</td>
<td>SCR01</td>
</tr>
<tr>
<td>U-00002</td>
<td>GT6</td>
<td>E0002</td>
<td>GT002</td>
</tr>
</tbody>
</table>
Emission Unit: U-00002
Process: GT6
Regulated Contaminant(s):
    CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 1-34.2:
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)(3), 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 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)(3).

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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 9.00 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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).
Condition 1-35:  Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-35.1:
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-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 1-35.2:
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 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.

Records shall be maintained at the facility 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
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-36: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-36.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: DB001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: SCR01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: DB002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: GT002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: SCR02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 1-36.2:
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)(3), the NOx emissions are limited to 18.00 parts per million by volume (dry, corrected to 15% O2), 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 light distillate fuel 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.

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

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 18.00 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 BLOCK (ARITHMETIC AVERAGE)
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-37.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point:</th>
<th>Process:</th>
<th>Emission Source:</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT5</td>
<td>GT001</td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT5</td>
<td>SCR01</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT6</td>
<td>GT002</td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT6</td>
<td>SCR02</td>
</tr>
</tbody>
</table>

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

Item 1-37.2:
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

Air Pollution Control Permit Conditions
Renewal 2/Mod 1/Active  Page 107  FINAL
CO per million Btu.

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

Records shall be maintained at the facility 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: 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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-38:  Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021
Applicable Federal Requirement: 6 NYCRR 231-2.7 (b)

Item 1-38.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Process</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>GT7</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>U-00001</td>
<td>GT7</td>
<td>E0001</td>
<td>SCR01</td>
</tr>
<tr>
<td>U-00002</td>
<td>GT8</td>
<td>E0002</td>
<td>GT002</td>
</tr>
<tr>
<td>U-00002</td>
<td>GT8</td>
<td>E0002</td>
<td>SCR02</td>
</tr>
</tbody>
</table>

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

Item 1-38.2:
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 light distillate fuel 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 light distillate fuel oil firing in the combustion turbine and no duct burner unit.

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

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-39: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-39.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>DB001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>SCR01</td>
</tr>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Regulated Contaminant(s):
- CAS No: 0NY210-00-0 OXIDES OF NITROGEN

**Item 1-39.2:**
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)(3), the NOx emissions are limited to 9.00 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 NOx 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.

KIAK 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."

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

**Manufacturer Name/Model Number:** CEMS for GE MODEL LM6000

**Parameter Monitored:** OXIDES OF NITROGEN

**Upper Permit Limit:** 9.00 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.
The initial report is due 4/30/2018.
Subsequent reports are due every 3 calendar month(s).

Condition 1-40: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-40.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td>Emission Source: GT001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT5</td>
<td>Emission Source: GT001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT2</td>
<td>Emission Source: GT002</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT6</td>
<td>Emission Source: GT002</td>
</tr>
</tbody>
</table>

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

Item 1-40.2:
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 9.00 parts per million by volume (dry, corrected to 15% O2) for 15 minutes, 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.

<table>
<thead>
<tr>
<th>Process</th>
<th>NOx Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT1</td>
<td>9.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT5</td>
<td>9.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT2</td>
<td>9.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT6</td>
<td>9.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
</tbody>
</table>

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 9.00 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: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-41:** Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-41.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>Process: GT5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00001</td>
<td>E0002</td>
<td>GT002</td>
</tr>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Emission Unit: U-00002
Process: GT6
Emission Point: E0002
Emission Source: GT002

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

Item 1-41.2:
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 CO emission limit of 5.0 parts per million by volume (dry, corrected to 15% O2) for 15 minutes, 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.

<table>
<thead>
<tr>
<th>Process</th>
<th>CO Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT1</td>
<td>5.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT5</td>
<td>5.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT2</td>
<td>5.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT6</td>
<td>5.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
</tbody>
</table>

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: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 1-42: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-42.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00001</td>
<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Process: GT7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: GT002</td>
</tr>
<tr>
<td>Process: GT4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Emission Point: E0002</td>
<td>Emission Source: GT002</td>
</tr>
<tr>
<td>Process: GT8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 1-42.2:
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 distillate fuel 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 7.50 parts per million by volume (dry, corrected to 15% O2) for 15 minutes, 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.

<table>
<thead>
<tr>
<th>Process</th>
<th>CO Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT3</td>
<td>7.50 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT7</td>
<td>7.50 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT4</td>
<td>7.50 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT8</td>
<td>7.50 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
</tbody>
</table>

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000  
Parameter Monitored: CARBON MONOXIDE  
Upper Permit Limit: 7.50 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: SEMI-ANNUALLY (CALENDAR)  
Reports due 30 days after the reporting period.  
The initial report is due 7/30/2018.  
Subsequent reports are due every 6 calendar month(s).  

**Condition 1-43:** Compliance Certification  
**Effective between the dates of 01/26/2018 and 02/28/2021**  

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

**Item 1-43.1:**  
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
Item 1-43.2:
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 distillate fuel 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 18.00 parts per million by volume (dry, corrected to 15% O2) for 15 minutes, 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.

<table>
<thead>
<tr>
<th>Process</th>
<th>NOx Emission Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td>GT3</td>
<td>18.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT7</td>
<td>18.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT4</td>
<td>18.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
<tr>
<td>GT8</td>
<td>18.00 parts per million by volume (dry, corrected to 15% O2)</td>
</tr>
</tbody>
</table>

Manufacturer Name/Model Number: CEMS for GE MODEL LM6000
Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 18.00 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: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 76: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 76.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>DB001</td>
</tr>
<tr>
<td>GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>DB001</td>
</tr>
<tr>
<td>GT3</td>
<td></td>
<td></td>
</tr>
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<table>
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<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>DB002</td>
</tr>
<tr>
<td>GT2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>DB002</td>
</tr>
<tr>
<td>GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 76.2:
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.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 77: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 77.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: DB001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: SCR01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: DB002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: GT002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: SCR02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 77.2:
Compliance Certification shall include the following monitoring:

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

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 78: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021
Applicable Federal Requirement: 40 CFR 52.21(j), Subpart A

Item 78.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit:</th>
<th>Emission Point:</th>
<th>Emission Source:</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>Process: GT7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>SCR01</td>
</tr>
<tr>
<td>Process: GT7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT002</td>
</tr>
<tr>
<td>Process: GT8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>SCR02</td>
</tr>
<tr>
<td>Process: GT8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Regulated Contaminant(s):
CAS No: 007664-41-7  AMMONIA

**Item 78.2:**
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 6.67 pounds per hour, 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 NH3 emissions from the 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.

  Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

**Condition 79:**  
Compliance Certification
Effective between the dates of  03/01/2016 and 02/28/2021

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

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 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.

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 80: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 80.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td>Emission Source: DB001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td>Emission Source: GT001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td>Emission Source: SCR01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td>Emission Source: DB002</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td>Emission Source: GT002</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td>Emission Source: SCR02</td>
</tr>
</tbody>
</table>

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

Item 80.2:
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 light distillate fuel 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

**Condition 81:** Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 40 CFR 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: GT3
  - Emission Point: E0001
  - Emission Source: DB001

- Emission Unit: U-00001
  - Process: GT3
  - Emission Point: E0001
  - Emission Source: GT001
Permit ID: 2-6308-00096/00009         Facility DEC ID: 2630800096

Air Pollution Control Permit Conditions

Emission Unit: U-00001  Emission Point: E0001
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: 007664-41-7  AMMONIA

Item 81.2:
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 9.25 pounds per hour, 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 light distillate fuel 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.

Records shall be maintained at the facility 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 82: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>DB001</td>
</tr>
<tr>
<td>GT1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>DB001</td>
</tr>
<tr>
<td>GT3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>DB002</td>
</tr>
<tr>
<td>GT2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>DB002</td>
</tr>
<tr>
<td>GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

Item 82.2:
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 83: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT5</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: SCR01</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT5</td>
<td></td>
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<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: GT002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: SCR02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT6</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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 the NOx and fuel flow.

The NH3 emissions are limited to 6.61 pounds per hour, on an hourly average basis during natural gas 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 natural gas in the combustion turbine and no duct burner unit.

KIAC will use CEMS to monitor the NH3 emission at the stack.
Records shall be maintained at the facility for a minimum of five years.

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 6.61 pounds per hour
Reference Test Method: 40 CFR Parts 60 Appendix B & F
Monitoring Frequency: CONTINUOUS
Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

**Condition 84: Compliance Certification**
Effective between the dates of 03/01/2016 and 02/28/2021

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

**Item 84.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT001</td>
</tr>
<tr>
<td>GT7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>SCR01</td>
</tr>
<tr>
<td>GT7</td>
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<td></td>
</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>GT002</td>
</tr>
<tr>
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</tr>
<tr>
<td>U-00002</td>
<td>E0002</td>
<td>SCR02</td>
</tr>
<tr>
<td>GT8</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Item 84.2:**
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 light distillate fuel firing.

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

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 85: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021
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:

<table>
<thead>
<tr>
<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
<th>Process</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>U-00001</td>
<td>E0001</td>
<td>GT001</td>
<td>GT5</td>
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</tr>
<tr>
<td>U-00002</td>
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<tr>
<td>U-00003</td>
<td>E0003</td>
<td>GT003</td>
<td>GT8</td>
<td>SCR03</td>
</tr>
</tbody>
</table>

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

Item 85.2:
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 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.

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

Manufacturer Name/Model Number: CEMS
Parameter Monitored: AMMONIA
Upper Permit Limit: 10.00 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 AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 86: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 86.1:
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 86.2:**
Compliance Certification shall include the following monitoring:

**Monitoring Type:** RECORD KEEPING/MAINTENANCE PROCEDURES

**Monitoring Description:**
The mass emission rate (lb/hr) of NOx 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
**Monitoring Frequency:** CONTINUOUS
**Reporting Requirements:** SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

**Condition 87:** Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

**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-00002 Process: GT4 Emission Source: SCR02
- Emission Unit: U-00002 Process: GT8 Emission Source: SCR02
Regulated Contaminant(s):
CAS No: 0NY210-00-0 OXIDES OF NITROGEN

Item 87.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS
Monitoring Description:
Combustion Turbine Unit # 2 (Emission Source GT002) is limited to 4.8 million gallons of light distillate fuel oil use (Processes GT4 & GT8) per year. This annual limit is based on a daily rolling average.

All records must be maintained at the facility for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Upper Permit Limit: 4800000 gallons per year
Reference Test Method: Keep Fuel Records
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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 88: Compliance Certification Effective between the dates of 03/01/2016 and 02/28/2021
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:

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<tr>
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</thead>
<tbody>
<tr>
<td>Emission Unit: U-00001</td>
<td>Process: GT7</td>
<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
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</tbody>
</table>
Regulated Contaminant(s):
  CAS No: 0NY210-00-0  OXIDES OF NITROGEN

Item 88.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:
  Combustion Turbine Unit # 1 (Emission Source GT001) is limited to 4.8 million gallons of light distillate fuel oil use (Processes GT3 & GT7) per year. This annual limit is based on a daily rolling average.

  All records must be maintained at the facility for a minimum of five years.

Work Practice Type: PROCESS MATERIAL THRUPUT
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Upper Permit Limit: 4800000  gallons per year
Reference Test Method: Keep Fuel Records
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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 89:  EPA Region 2 address.
  Effective between the dates of  03/01/2016 and 02/28/2021

  Applicable Federal Requirement:40CFR 60.4, NSPS Subpart A

Item 89.1:
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 90: Compliance Certification  
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.7, NSPS Subpart A

Item 90.1:
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 90.2:
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 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.  
The initial report is due 7/30/2016.  
Subsequent reports are due every 6 calendar month(s).

Condition 91: Compliance Certification  
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 91.1:
The Compliance Certification activity will be performed for the Facility.

Item 91.2:
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;

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 92: Recordkeeping requirements.
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 92.1: 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 93: Compliance Certification  
Effective between the dates of 03/01/2016 and 02/28/2021  

Applicable Federal Requirement: 40CFR 60.7(c), 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:  
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;  
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. The initial report is due 7/30/2016. Subsequent reports are due every 6 calendar month(s).  

Condition 94: Excess emissions report.  
Effective between the dates of 03/01/2016 and 02/28/2021  

Applicable Federal Requirement: 40CFR 60.7(d), NSPS Subpart A
Item 94.1: 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 95: Facility files for subject sources. Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 95.1: 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 96: Compliance Certification Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.11, NSPS Subpart A

Item 96.1: 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 Unit: U-00001 Emission Point: E0001
Process: GT7

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

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

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

Item 96.2: 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) 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;

2) the opacity standards apply at all times except during periods of start up, shutdown, and malfunction; and

3) all other applicable conditions cited in section 60.11 of this part.

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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 97: Circumvention.
Effective between the dates of 03/01/2016 and 02/28/2021
Applicable Federal Requirement: 40CFR 60.12, NSPS Subpart A

Item 97.1: 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 98: Monitoring requirements.
Effective between the dates of 03/01/2016 and 02/28/2021
Applicable Federal Requirement: 40CFR 60.13, NSPS Subpart A

Item 98.1: All continuous monitoring systems and devices shall be installed, calibrated, maintained, and operated in accordance with the requirements of section 60.13.

Condition 99: Monitoring requirements.
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.13, NSPS Subpart A

Item 99.1:
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 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 100: Modifications.
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.14, NSPS Subpart A

Item 100.1:
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 101: Reconstruction
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.15, NSPS Subpart A

Item 101.1:
The following shall be submitted to the Administrator prior to reconstruction (as defined in section 60.15):

1) a notice of intent to reconstruct 60 days prior to the action;

2) name and address of the owner or operator;

3) the location of the existing facility;

4) a brief description of the existing facility and the components to be replaced;

5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;

6) an estimate of the fixed capital cost of the replacements and of constructing a comparable
entirely new facility;

7) the estimated life of the facility after the replacements; and

8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

**Condition 102: Compliance Certification**

*Effective between the dates of 03/01/2016 and 02/28/2021*

*Applicable Federal Requirement: 40CFR 60.47b, NSPS Subpart Db*

**Item 102.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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</thead>
<tbody>
<tr>
<td>Emission Unit: U-00001</td>
<td>Process: GT7</td>
<td>Emission Point: E0001</td>
<td>Emission Source: GT001</td>
</tr>
<tr>
<td>Emission Unit: U-00002</td>
<td>Process: GT8</td>
<td>Emission Point: E0002</td>
<td>Emission Source: SCR02</td>
</tr>
</tbody>
</table>

**Regulated Contaminant(s):**

- CAS No: 007446-09-5 SULFUR DIOXIDE

**Item 102.2:**
Compliance Certification shall include the following monitoring:
Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Facilities which combust very low sulfur 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 oil shall obtain and maintain at the facility fuel receipts from the fuel supplier which certify that the oil meets the definition of 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 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 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 at KIAC use the low sulfur distillate fuel 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 fuel 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.

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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

**Condition 103: Compliance Certification**
**Effective between the dates of 03/01/2016 and 02/28/2021**

**Applicable Federal Requirement:** 40CFR 60.48b(f), 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 Emission Point: E0001
  Process: GT1

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

- Emission Unit: U-00001 Emission Point: E0001
  Process: GT5

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

- 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: 0NY210-00-0
- OXIDES OF NITROGEN
Item 103.2:
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.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 104: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.49b, 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 Emission Point: E0001
Process: GT1

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

Emission Unit: U-00001 Emission Point: E0001
Process: GT5

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

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

Emission Unit: U-00002 Emission Point: E0002

Air Pollution Control Permit Conditions
Renewal 2/Mod 1/Active Page 142 FINAL
Permit ID: 2-6308-00096/00009         Facility DEC ID: 2630800096

Air Pollution Control Permit Conditions

Process: GT4
Emission Unit: U-00002
Emission Point: E0002
Process: GT6
Emission Unit: U-00002
Emission Point: E0002
Process: GT8
Emission Unit: U-00002
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 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 NOx 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 105: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 105.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

Emission Unit: U-00001
Emission Point: E0001
Item 105.2:
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, 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 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: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 1/30/2017.
Subsequent reports are due every 12 calendar month(s).

Condition 1-44:   Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

Applicable Federal Requirement: 40CFR 60.334(h)(1), NSPS Subpart GG

Item 1-44.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00001</th>
<th>Emission Point: E0001</th>
<th>Emission Source: GT001</th>
</tr>
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<tbody>
<tr>
<td>Process: GT7</td>
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</table>

<table>
<thead>
<tr>
<th>Emission Unit: U-00002</th>
<th>Emission Point: E0002</th>
<th>Emission Source: GT002</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: GT4</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Item 1-44.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

In accordance with the March 4, 1994 EPA Approved Custom Fuel Monitoring Schedule, the Sulfur content of the light distillate fuel used at the facility will be sampled once per 24-hour period during natural gas curtailment periods when firing on distillate fuel oil.

The two combustion turbines at KIAC use the low sulfur distillate fuel 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 fuel 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.

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  
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.  
The initial report is due 7/30/2018.  
Subsequent reports are due every 6 calendar month(s).

**Condition 107: Compliance Certification**  
Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 40CFR 60.334(h)(3), NSPS Subpart GG

**Item 107.1:**  
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 107.2:**  
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
Reference Test Method: ASTM D-5504
Monitoring Frequency: SEMI-ANNUALLY
Averaging Method: 180-DAY AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-45: Compliance Certification**
*Effective between the dates of 01/26/2018 and 02/28/2021*

**Applicable Federal Requirement:** 40CFR 63, Subpart A

**Item 1-45.1:**
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
  - **Process:** BD2
    - Emission Point: 00016
      - Emission Source: HWG02
  - **Process:** BD2
    - Emission Point: 00017
      - Emission Source: HWG03
  - **Process:** BD2
    - Emission Point: 00018
      - Emission Source: HWG04
  - **Process:** BD2
    - Emission Point: 00019
      - Emission Source: HWG05
  - **Process:** BD2
    - Emission Point: 00020
      - Emission Source: HWG06
  - **Process:** BG2
    - Emission Point: 00015
      - Emission Source: HWG01
  - **Process:** BG2
    - Emission Point: 00016
      - Emission Source: HWG02
  - **Process:** BG2
    - Emission Point: 00017
      - Emission Source: HWG03
  - **Process:** BG2
    - Emission Point: 00018
      - Emission Source: HWG04
  - **Process:** BG2
    - Emission Point: 00019
      - Emission Source: HWG05
  - **Process:** BG2
    - Emission Point: 00020
      - Emission Source: HWG06
Regulated Contaminant(s):
CAS No: 0NY100-00-0  TOTAL HAP

Item 1-45.2:
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 JJJJJJ (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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 JJJJJJ 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 JJJJJJ, 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 1-46:  Compliance Certification
Effective between the dates of  01/26/2018 and 02/28/2021
Applicable Federal Requirement: 40CFR 63.11201(b), Subpart JJJJJJ

**Item 1-46.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00016</td>
<td>Process: BD2</td>
<td>Emission Source: HWG02</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00017</td>
<td>Process: BD2</td>
<td>Emission Source: HWG03</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00019</td>
<td>Process: BD2</td>
<td>Emission Source: HWG05</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00020</td>
<td>Process: BD2</td>
<td>Emission Source: HWG06</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00016</td>
<td>Process: BG2</td>
<td>Emission Source: HWG02</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00017</td>
<td>Process: BG2</td>
<td>Emission Source: HWG03</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00019</td>
<td>Process: BG2</td>
<td>Emission Source: HWG05</td>
</tr>
<tr>
<td>Emission Unit: B-OILRS</td>
<td>Emission Point: 00020</td>
<td>Process: BG2</td>
<td>Emission Source: HWG06</td>
</tr>
</tbody>
</table>

Regulated Contaminant(s):
- CAS No: 0NY100-00-0  TOTAL HAP

**Item 1-46.2:**
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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-47:** Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

**Applicable Federal Requirement:** 40CFR 63.11201(b), Subpart JJJJJ

**Item 1-47.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
<th>Emission Source: HWG01</th>
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<tbody>
<tr>
<td>Process: BD2</td>
<td></td>
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</table>

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<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00016</th>
<th>Emission Source: HWG02</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
<th>Emission Source: HWG03</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td></td>
<td></td>
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<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00018</th>
<th>Emission Source: HWG04</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00019</th>
<th>Emission Source: HWG05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BD2

Emission Unit: B-OILRS  Emission Point: 00015  Emission Source: HWG01
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00016  Emission Source: HWG02
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00017  Emission Source: HWG03
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG2

Regulated Contaminant(s):
  CAS No: 0NY100-00-0  TOTAL HAP

**Item 1-47.2:**
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 JJJJJJ (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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 JJJJJJ 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 1-48: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

Applicable Federal Requirement: 40CFR 63.11205(a), Subpart JJJJJJ

Item 1-48.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
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<tr>
<th>Emission Unit: B-OILRS</th>
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<th>Emission Source: HWG02</th>
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<tr>
<td>Process: BD2</td>
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<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
<th>Emission Source: HWG03</th>
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<tr>
<th>Emission Unit: B-OILRS</th>
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<th>Emission Unit: B-OILRS</th>
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<tr>
<td>Process: BD2</td>
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<th>Emission Unit: B-OILRS</th>
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<th>Emission Source: HWG01</th>
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<tbody>
<tr>
<td>Process: BG2</td>
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<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
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<th>Emission Source: HWG02</th>
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<tbody>
<tr>
<td>Process: BG2</td>
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</table>

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<tr>
<th>Emission Unit: B-OILRS</th>
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<th>Emission Source: HWG03</th>
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<tr>
<th>Emission Unit: B-OILRS</th>
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<th>Emission Source: HWG04</th>
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<tr>
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</table>

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<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00019</th>
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</table>

<table>
<thead>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00020</th>
<th>Emission Source: HWG06</th>
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</thead>
<tbody>
<tr>
<td>Process: BG2</td>
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</tbody>
</table>
Regulated Contaminant(s):
CAS No: 0NY100-00-0   TOTAL HAP

Item 1-48.2:
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 JJJJJJ (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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 JJJJJJ 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 1-49:  Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

Applicable Federal Requirement: 40CFR 63.11210(h), Subpart JJJJJJ
Item 1-49.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td>Emission Source: HWG01</td>
</tr>
</tbody>
</table>

<table>
<thead>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00016</th>
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</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td>Emission Source: HWG02</td>
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<table>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
<td>Emission Source: HWG03</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
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<tbody>
<tr>
<td>Process: BD2</td>
<td>Emission Source: HWG04</td>
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<table>
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<tbody>
<tr>
<td>Process: BD2</td>
<td>Emission Source: HWG05</td>
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<tbody>
<tr>
<td>Process: BD2</td>
<td>Emission Source: HWG06</td>
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</thead>
<tbody>
<tr>
<td>Process: BG2</td>
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<table>
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<th>Emission Point: 00016</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td>Emission Source: HWG02</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td>Emission Source: HWG03</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00018</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td>Emission Source: HWG04</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00019</th>
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</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td>Emission Source: HWG05</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td>Emission Source: HWG06</td>
</tr>
</tbody>
</table>

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 1-49.2:
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 JJJJJJ (Boiler MACT for area sources).
“gas-fired boiler” is defined as any boiler that burns gaseous fuels not combined with any solid fuels and burns liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 must demonstrate compliance with this Subpart. Notification of such changes must be submitted according to Part 63.11225(g).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 1-50: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

Applicable Federal Requirement: 40CFR 63.11214(c), Subpart JJJJJ

Item 1-50.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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<th>Emission Unit</th>
<th>Emission Point</th>
<th>Emission Source</th>
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<td>HWG01</td>
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<tr>
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<td></td>
</tr>
<tr>
<td>B-OILRS</td>
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<td>HWG02</td>
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<tr>
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<td></td>
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<tr>
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<td>00017</td>
<td>HWG03</td>
</tr>
<tr>
<td>Process: BD2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>B-OILRS</td>
<td>00018</td>
<td>HWG04</td>
</tr>
<tr>
<td>Process: BD2</td>
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<td></td>
</tr>
<tr>
<td>B-OILRS</td>
<td>00019</td>
<td>HWG05</td>
</tr>
<tr>
<td>Process: BD2</td>
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<td></td>
</tr>
<tr>
<td>B-OILRS</td>
<td>00020</td>
<td>HWG06</td>
</tr>
<tr>
<td>Process: BD2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Emission Unit: B-OILRS  Emission Point: 00015  Emission Source: HWG01
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00016  Emission Source: HWG02
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00017  Emission Source: HWG03
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG2

Regulated Contaminant(s):
CAS No: 0NY100-00-0 TOTAL HAP

Item 1-50.2:
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 JJJJJJ (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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 JJJJJJ 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 JJJJJJ 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. 
The initial report is due 7/30/2018.  
Subsequent reports are due every 6 calendar month(s).  

**Condition 1-51:  Compliance Certification**  
Effective between the dates of 01/26/2018 and 02/28/2021  

**Applicable Federal Requirement:** 40CFR 63.11223(b), Subpart JJJJJJ  

**Item 1-51.1:**  
The Compliance Certification activity will be performed for the facility:  
The Compliance Certification applies to:  

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<thead>
<tr>
<th>Emission Unit</th>
<th>Process</th>
<th>Emission Point</th>
<th>Emission Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>B-OILRS</td>
<td>BD2</td>
<td>00016</td>
<td>HWG02</td>
</tr>
<tr>
<td>B-OILRS</td>
<td>BD2</td>
<td>00017</td>
<td>HWG03</td>
</tr>
<tr>
<td>B-OILRS</td>
<td>BG2</td>
<td>00016</td>
<td>HWG02</td>
</tr>
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<td>B-OILRS</td>
<td>BG2</td>
<td>00017</td>
<td>HWG03</td>
</tr>
</tbody>
</table>

Regulated Contaminant(s):  
CAS No: 0NY100-00-0  TOTAL HAP  

**Item 1-51.2:**  
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 JJJJJJ (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 
liquid fuel only during periods of gas curtailment, gas 
supply interruption, startups, or periodic testing on 
liquid fuel. (Periodic testing of liquid fuel shall not 
exceed a combined total of 48 hours during any calendar 
year). If a boiler fires 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 JJJJJJ 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 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

Condition 1-52: Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

Item 1-52.1:
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
<th>Emission Source: HWG01</th>
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</thead>
<tbody>
<tr>
<td>Process: BD2</td>
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<table>
<thead>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00018</th>
<th>Emission Source: HWG04</th>
</tr>
</thead>
<tbody>
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<td>Process: BD2</td>
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</table>

<table>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00019</th>
<th>Emission Source: HWG05</th>
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</thead>
<tbody>
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<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00020</th>
<th>Emission Source: HWG06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BD2</td>
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</tr>
</tbody>
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<th>Emission Unit: B-OILRS</th>
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<th>Emission Source: HWG01</th>
</tr>
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</tbody>
</table>
Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG2

Regulated Contaminant(s):
CAS No: 0NY100-00-0  TOTAL HAP

Item 1-52.2:
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 JJJJJJ (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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 JJJJJJ 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 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.
   (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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-53: Compliance Certification**
**Effective between the dates of 01/26/2018 and 02/28/2021**

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

**Item 1-53.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

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<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
<th>Emission Source: HWG01</th>
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<table>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00016</th>
<th>Emission Source: HWG02</th>
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<table>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
<th>Emission Source: HWG03</th>
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<th>Emission Source: HWG05</th>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00020</th>
<th>Emission Source: HWG06</th>
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</thead>
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<td>Process: BD2</td>
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<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00015</th>
<th>Emission Source: HWG01</th>
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<tr>
<td>Process: BG2</td>
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<table>
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<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00016</th>
<th>Emission Source: HWG02</th>
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<tbody>
<tr>
<td>Process: BG2</td>
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<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00017</th>
<th>Emission Source: HWG03</th>
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<tr>
<td>Process: BG2</td>
<td></td>
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<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00018</th>
<th>Emission Source: HWG04</th>
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<tbody>
<tr>
<td>Process: BG2</td>
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<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00019</th>
<th>Emission Source: HWG05</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emission Unit: B-OILRS</th>
<th>Emission Point: 00020</th>
<th>Emission Source: HWG06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process: BG2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Regulated Contaminant(s):
CAS No: 0NY100-00-0  TOTAL HAP

Item 1-53.2:
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 JJJJJJ (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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 JJJJJJ and must comply with this permit condition.

In order to comply with the requirements of 40 CFR 63.11225 (a) and 63.11214, KIAC shall provide notifications to the USEPA as follows:

(1) KIAC shall submit an Initial Notification within 120 days after the affected source becomes subject to the standard.

(2) KIAC shall submit a Notification of Compliance Status (NOCS) no later than 120 days after the applicable compliance. The NOCS must include the information (or statements) listed in items (i) through (iii) below, as 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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 1-54:** Compliance Certification
Effective between the dates of 01/26/2018 and 02/28/2021

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

**Item 1-54.1:**
The Compliance Certification activity will be performed for the facility:
The Compliance Certification applies to:

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00015
  - **Emission Source:** HWG01
  
  **Process:** BD2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00016
  - **Emission Source:** HWG01
  
  **Process:** BD2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00017
  - **Emission Source:** HWG01
  
  **Process:** BD2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00018
  - **Emission Source:** HWG01
  
  **Process:** BD2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00019
  - **Emission Source:** HWG01
  
  **Process:** BD2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00020
  - **Emission Source:** HWG01
  
  **Process:** BD2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00015
  - **Emission Source:** HWG01
  
  **Process:** BG2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00016
  - **Emission Source:** HWG01
  
  **Process:** BG2

- **Emission Unit:** B-OILRS
  - **Emission Point:** 00017
  - **Emission Source:** HWG01
  
  **Process:** BG2

Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG2

Regulated Contaminant(s):
CAS No: 0NY100-00-0  TOTAL HAP

Item 1-54.2:
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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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 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.

The initial report is due 7/30/2018.

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

**Condition 1-55: Compliance Certification**

**Effective between the dates of 01/26/2018 and 02/28/2021**

**Applicable Federal Requirement:** 40CFR 63.11225(d), Subpart JJJJJJJ

**Item 1-55.1:**

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  Emission Point: 00015  Emission Source: HWG01
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00016  Emission Source: HWG02
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00017  Emission Source: HWG03
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00018  Emission Source: HWG04
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00019  Emission Source: HWG05
Process: BG2

Emission Unit: B-OILRS  Emission Point: 00020  Emission Source: HWG06
Process: BG2

Regulated Contaminant(s):
  CAS No: 0NY100-00-0  TOTAL HAP

Item 1-55.2:
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 liquid fuel only during periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. (Periodic testing of liquid fuel shall not exceed a combined total of 48 hours during any calendar year). If a boiler fires 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.

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.
The initial report is due 7/30/2018.
Subsequent reports are due every 6 calendar month(s).

**Condition 108: Compliance Certification**
Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 40CFR 75.20, Subpart C

**Item 108.1:**
The Compliance Certification activity will be performed for the Facility.

**Item 108.2:**
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, NOx emission rate, NOx 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; 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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

**Condition 109: Compliance Certification**
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 97.406, Subpart AAAAA

Item 109.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 109.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:
(1) The facility shall comply with the requirement to have a designated representative, and may have an alternate designated representative, in accordance with §§97.413 through 97.418 of Subpart AAAAA. The facility shall notify the Department of this representative (and alternative) with contact information upon issuance of this permit and when any changes are made to the representative (or alternative) or their contact information.

(2) The facility, and the designated representative, of each TR NOx Annual source (facility) and each TR NOx Annual Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.430 through 97.435 of Subpart AAAAA and subpart H of part 75 of this chapter. This includes but is not limited to: requirements for installation, certification, and data accounting for all required monitoring systems; requirements for recording, reporting, and quality-assurance of the data; and certification of compliance of such data. Data from continuous emission monitoring equipment are submitted quarterly (calendar year). These reports are generally due 30 days after the end of a calendar quarter. All other monitoring data are submitted to the DEC semiannually (calendar year). These reports are due on January 30th and July 30th of each year.

(3) The emissions data determined shall be used to calculate allocations of TR NOx Annual allowances and to determine compliance with the TR NOx Annual emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Annual facility and each TR NOx Annual Unit at the facility shall hold, in
the facilities compliance account, TR NOx Annual allowances available for deduction for such control period under §97.424(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOX Annual Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 110: Compliance Certification**

Effective between the dates of 03/01/2016 and 02/28/2021

**Applicable Federal Requirement:** 40CFR 97.506, Subpart BBBBB

**Item 110.1:**
The Compliance Certification activity will be performed for the Facility.

**Regulated Contaminant(s):**

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

**Item 110.2:**
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 §§97.513 through 97.518 of Subpart BBBBB. 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 Ozone Season source (facility) and each TR NOx Ozone Season Unit at the facility shall comply with the monitoring, reporting, and recordkeeping requirements of §§97.530 through 97.535 of Subpart BBBBB 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...
(3) The emissions data determined shall be used to calculate allocations of TR NOx Ozone Season allowances and to determine compliance with the TR NOx Ozone Season emissions limitation and assurance provisions. As of the allowance transfer deadline for a control period in a given year, the owners and operators of each TR NOx Ozone Season facility and each TR NOx Ozone Season Unit at the facility shall hold, in the facilities compliance account, TR NOx Ozone Season allowances available for deduction for such control period under §97.524(a) in an amount not less than the tons of total NOx emissions for such control period from all TR NOx Ozone Season Units at the facility.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 111: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 40CFR 97.606, Subpart CCCCC

Item 111.1:
The Compliance Certification activity will be performed for the Facility.

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

Item 111.2:
Compliance Certification shall include the following monitoring:

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

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

(3) The emissions data determined shall be used to calculate allocations of TR SO2 Group 1 allowances and to determine compliance with the TR SO2 Group 1 emissions limitation and assurance provisions. As of the allowance 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 112: Emission Point Definition By Emission Unit
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 112.1(From Mod 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.): 4500.315 NYTME (km.): 602.741 Building: COGENB

Emission Point: 00016
Height (ft.): 39 Diameter (in.): 48
NYTMN (km.): 4500.315 NYTME (km.): 602.741 Building: COGENB

Emission Point: 00017
Height (ft.): 39  Diameter (in.): 48  Building: COGENB
NYTMN (km.): 4500.315  NYTME (km.): 602.741

Emission Point: 00018
Height (ft.): 35  Diameter (in.): 66  Building: COGENB
NYTMN (km.): 4500.315  NYTME (km.): 602.741

Emission Point: 00019
Height (ft.): 39  Diameter (in.): 48  Building: COGENB
NYTMN (km.): 4500.315  NYTME (km.): 602.741

Emission Point: 00020
Height (ft.): 39  Diameter (in.): 48  Building: COGENB
NYTMN (km.): 4500.315  NYTME (km.): 602.741

Item 112.2 (From Mod 1):
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  Building: COGENB
NYTMN (km.): 4500.27  NYTME (km.): 602.708

Item 112.3 (From Mod 1):
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  Building: COGENB
NYTMN (km.): 4500.325  NYTME (km.): 602.771

Condition 113: Process Definition By Emission Unit
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 113.1 (From Mod 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 light distillate (jet fuel or #2 fuel oil, where the boilers qualify as "Gas-Only" units and are exempt from the requirements of 40 CFR 63 Subpart JJJJJJ. (Use of distillate fuel oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel 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).

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  
Control Type: OXYGEN TRIM SYSTEM

**Item 113.2(From Mod 1):**  
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: B-OILRS  
Process: BD2  
Source Classification Code: 1-03-004-02

Process Description:  
Process BD2 is when the six boilers are firing light distillate (jet fuel or #2 fuel oil), where the boilers are subject to the requirements of 40 CFR 63 Subpart JJJJJJ.

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
Control Type: OXYGEN TRIM SYSTEM

Item 113.3(From Mod 1):
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 JJJJJ. (Use of distillate fuel oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel 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
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 113.4 (From Mod 1):**
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 JJJJJJ.

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
Item 113.5 (From Mod 1):
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 light 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.

Emission Source/Control: DB001 - Combustion
Design Capacity: 249 million BTUs per hour

Emission Source/Control: GT001 - Combustion
Design Capacity: 469 million BTUs per hour

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

Item 113.6 (From Mod 1):
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 light 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 light 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.
Light 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 BTUs per hour

Emission Source/Control:  GT001 - Combustion
Design Capacity: 469  million BTUs per hour

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

**Item 113.7(From Mod 1):**
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 light 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.

Emission Source/Control:  GT001 - Combustion
Design Capacity: 469  million BTUs per hour

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

**Item 113.8(From Mod 1):**
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 light 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 light 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.

Light distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT001).

Emission Source/Control: GT001 - Combustion
Design Capacity: 469 million BTUs per hour

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

**Item 113.9 (From Mod 1):**
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
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 light 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.

Emission Source/Control: DB002 - Combustion
Design Capacity: 249 million BTUs per hour

Emission Source/Control: GT002 - Combustion
Design Capacity: 469 million BTUs per hour

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

**Item 113.10 (From Mod 1):**
This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002
Source Classification Code: 2-02-001-03

**Process Description:**
Process GT4 is the firing of light 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 light 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.

Light 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 BTUs per hour

Emission Source/Control: GT002 - Combustion
Design Capacity: 469 million BTUs per hour

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

Item 113.11(From Mod 1):
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 burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and light 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.

Emission Source/Control: GT002 - Combustion
Design Capacity: 469 million BTUs per hour

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

Item 113.12(From Mod 1):
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 light 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 light 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.

Light 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 BTUs per hour

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

**Condition 1-56: Emission Unit Permissible Emissions**  
**Effective between the dates of 01/26/2018 and 02/28/2021**

**Applicable Federal Requirement:** 6 NYCRR Subpart 201-7

**Item 1-56.1:** 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:** 000630080  
  **Name:** CARBON MONOXIDE  
  **PTE(s):** 61,900 pounds per year  
  11.2 pounds per hour

- **CAS No:** 0NY210000  
  **Name:** OXIDES OF NITROGEN  
  **PTE(s):** 180,600 pounds per year  
  36.5 pounds per hour

**Emission Unit: U-00002**

- **CAS No:** 000630080  
  **Name:** CARBON MONOXIDE  
  **PTE(s):** 61,900 pounds per year  
  11.2 pounds per hour
Condition 114: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 114.1:
The Compliance Certification activity will be performed for:

- Emission Unit: U-00001
- Emission Point: E0001
- Regulated Contaminant(s):
  - CAS No: 0NY210-00-0
  - Name: OXIDES OF NITROGEN

Item 114.2:
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.
  - The initial report is due 4/30/2016.
  - Subsequent reports are due every 3 calendar month(s).
Condition 115: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 115.1:
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 115.2:
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.
  - The initial report is due 7/30/2016.
  - Subsequent reports are due every 6 calendar month(s).

Condition 116: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 116.1:
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 116.2:
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 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 117: CEMS**
*Effective between the dates of 03/01/2016 and 02/28/2021*

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

**Item 117.1:**
This Condition applies to:

- Emission Unit: U00002
- Emission Point: E0002

**Item 117.1:**
This Condition applies to:

- Emission Unit: U-00001
- Emission Point: E0001

**Item 117.2.3:**
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 121: Compliance Certification**
*Effective between the dates of 03/01/2016 and 02/28/2021*

*Applicable Federal Requirement:* 6 NYCRR 227-1.7
Item 121.1:
The Compliance Certification activity will be performed for:

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

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

Item 121.2:
Compliance Certification shall include the following monitoring:

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

KIAC is required to conduct the two-hour average emission of particulates from this stationary combustion installations only if the facility operates on the distillate oil (Processes GT3, GT4, GT7 & GT8) 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 DURING THE TERM OF THE PERMIT  
Averaging Method: 1-HOUR AVERAGE  
Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE  

Condition 122:  
Compliance Certification  
Effective between the dates of 03/01/2016 and 02/28/2021  

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

Item 122.1:
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 122.2:
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.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 123: Compliance Certification
Effective between the dates of 03/01/2016 and 02/28/2021

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

Item 123.1:
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 123.2:
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.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).
STATE ONLY ENFORCEABLE CONDITIONS

**** Facility Level ****

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

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

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

   (1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;
   (2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
   (3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
   (4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

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

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and
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 126: Contaminant List
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: ECL 19-0301

Item 126.1:
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
Condition 127: Malfunctions and start-up/shutdown activities
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 201-1.4

Item 127.1:
(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

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

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

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

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

Condition 128: Visible Emissions Limited
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 211.2

Item 128.1:
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 129: Compliance Demonstration**
**Effective between the dates of 03/01/2016 and 02/28/2021**

**Applicable State Requirement:** 6 NYCRR 227-1.4

**Item 129.1:**
The Compliance Demonstration activity will be performed for the Facility.

**Item 129.2:**
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 130: Compliance Demonstration**
**Effective between the dates of 03/01/2016 and 02/28/2021**

**Applicable State Requirement:** 6 NYCRR 227-1.4 (a)

**Item 130.1:**
The Compliance Demonstration activity will be performed for the Facility.

**Item 130.2:**
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.
Manufacturer Name/Model Number: COMS
Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: 40 CFR 60 Appendix B
Monitoring Frequency: CONTINUOUS
Averaging Method: 6 MINUTE AVERAGE
Reporting Requirements: QUARTERLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).

Condition 131: Compliance Demonstration
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 231-1.4

Item 131.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 131.2:
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 132: Compliance Demonstration
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 231-1.6

Item 132.1:
The Compliance Demonstration activity will be performed for the Facility.

Item 132.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
   (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 133: CO2 Budget Trading Program - Excess emission requirements
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 242-1.5

Item 133.1: 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 134: Compliance Demonstration
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 242-1.5

Item 134.1: The Compliance Demonstration activity will be performed for the Facility.

Item 134.2: Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description: The owners and operators and, to the extent applicable,
the CO2 authorized account representative of each CO2 budget source and each CO2 budget unit at the source shall comply with the monitoring requirements of Subpart 242-8. The emissions measurements recorded and reported in accordance with Subpart 242-8 of this Part shall be used to determine compliance by the unit with the following CO2 requirements:

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

(2) Each ton of CO2 emitted in excess of the CO2 budget emissions limitation shall constitute a separate violation of this Part and applicable state law.

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

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

**Condition 135: Compliance Demonstration**

*Effective between the dates of 03/01/2016 and 02/28/2021*

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

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

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

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

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

  (iv) Copies of all documents used to complete a CO2 budget permit application and any other submission under the CO2 Budget Trading Program or to demonstrate compliance with the requirements of the CO2 Budget Trading Program.
The CO2 authorized account representative of a CO2 budget source and each CO2 budget unit at the source shall submit the reports and compliance certifications required under the CO2 Budget Trading Program, including those under Subpart 242-4.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 7/30/2016.
Subsequent reports are due every 6 calendar month(s).

Condition 136: Compliance Demonstration
Effective between the dates of 03/01/2016 and 02/28/2021

Applicable State Requirement: 6 NYCRR 242-8.5

Item 136.1:
The Compliance Demonstration activity will be performed for the Facility.

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

Item 136.2:
Compliance Demonstration shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:
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:

(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, NOx, and SO2 provisions.

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

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

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

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

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: QUARTERLY (CALENDAR)

Reports due 30 days after the reporting period.
The initial report is due 4/30/2016.
Subsequent reports are due every 3 calendar month(s).