

Division of Air Resources
Permit Review Report

Permit ID: 2-6308-00096/00009

Renewal Number: 3

Modification Number: 1 09/02/2025

Facility Identification Data

Name: CALPINE JFK ENERGY CENTER

Address: KENNEDY INTERNATIONAL AIRPORT BLDG 49|Enter Through Sign To Terminal 7

Parking

JAMAICA, NY 11430

Owner/Firm

Name: KIAC PARTNERS

Address: C/O CEA KENNEDY OPERATORS, INC

717 TEXAS AVE STE 1000

HOUSTON, TX 77002, USA

Owner Classification: Corporation/Partnership

Permit Contacts

Division of Environmental Permits:

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KENNEDY INTERNATIONAL AIRPORT BLDG 49

JAMAICA, NY 11430

Phone:7189950547

Permit Description

Introduction

The Title V operating air permit is intended to be a document containing only enforceable terms and conditions as well as any additional information, such as the identification of emission units, emission points, emission sources and processes, that makes the terms meaningful. 40 CFR Part 70.7(a)(5) requires that each Title V permit have an accompanying "...statement that sets forth the legal and factual basis for the draft permit conditions". The purpose for this permit review report is to satisfy the above requirement by providing pertinent details regarding the permit/application data and permit conditions in a more easily understandable format. This report will also include background narrative and explanations of regulatory decisions made by the reviewer. It should be emphasized that this permit review report, while based on information contained in the permit, is a separate document and is not itself an enforceable term and condition of the permit.

Summary Description of Proposed Project

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This permit modification application is to replace the six existing Hot Water Generators (HWGs) with five new HWGs each rated for approximately 61 mmBTU/hr. Additionally, the facility is proposing to replace their emergency black start generator.

The facility has demonstrated to the Department's satisfaction that this project is able to net out of the Department's New Source Review (NSR) requirements. Accordingly, limitation on the potential emissions NOx have been placed in the permit to ensure ongoing compliance with the netting requirements of NSR. The permit condition limits the project emission potential of NOx to 14.68 tons/year which is less than the net emission increase threshold of 25 tons per year for the NSR applicability.

Attainment Status

CALPINE JFK ENERGY CENTER is located in the town of QUEENS in the county of QUEENS. The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
-----	-----
Particulate Matter (PM)	ATTAINMENT
Particulate Matter< 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT
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* Ozone is regulated in terms of the emissions of volatile organic compounds (VOC) and/or oxides of nitrogen (NOx) which are ozone precursors.

** NOx has a separate ambient air quality standard in addition to being an ozone precursor.

Facility Description:

The Calpine JFK Energy Center (KIAC) plant is located in the middle of the central terminal area of the JFK International Airport, Building No. 49, in Jamaica, Queens, New York. The KIAC plant supplies electricity to the 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 cogeneration plant consists of two identical General Electric LM6000 PC Sprint gas combustion turbines, which are permitted to fire both

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natural gas and light distillate fuel oil. The combustion turbines are equipped with supplementary natural gas fired duct burners and heat recovery steam generators (HRSGs). The facility also includes six Hot Water Generators (HWGs) that produce hot water in the event of an emergency. The six HWGs can be fired with natural gas or liquid fuel. Calpine is proposing to replace the six existing HWGs with five new HWGs.

Permit Structure and Description of Operations

The Title V permit for CALPINE JFK ENERGY CENTER

is structured in terms of the following hierarchy: facility, emission unit, emission point, emission source and process. A facility is defined as all emission sources located at one or more adjacent or contiguous properties owned or operated by the same person or persons under common control. The facility is subdivided into one or more emission units (EU). Emission units are defined as any part or activity of a stationary facility that emits or has the potential to emit any federal or state regulated air pollutant. An emission unit is represented as a grouping of processes (defined as any activity involving one or more emission sources (ES) that emits or has the potential to emit any federal or state regulated air pollutant). An emission source is defined as any apparatus, contrivance or machine capable of causing emissions of any air contaminant to the outdoor atmosphere, including any appurtenant exhaust system or air cleaning device. [NOTE: Indirect sources of air contamination as defined in 6 NYCRR Part 203 (i.e. parking lots) are excluded from this definition]. The applicant is required to identify the principal piece of equipment (i.e., emission source) that directly results in or controls the emission of federal or state regulated air pollutants from an activity (i.e., process). Emission sources are categorized by the following types:

- combustion - devices which burn fuel to generate heat, steam or power
- incinerator - devices which burn waste material for disposal
- control - emission control devices
- process - any device or contrivance which may emit air contaminants
that is not included in the above categories.

CALPINE JFK ENERGY CENTER is defined by the following emission unit(s):

Emission unit BOILRS - Currently:

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

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

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

The six boilers operate on natural gas (Processes BG1 & BG2), and Jet Fuel A.

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.

Modification:

This emission unit will consist of five (5) new Hot Water Generators (HWGs). These will replace the six (6) existing HWGs in Emission Unit B-OILRS. Like the existing HWGs, the new HWGs will be owned by

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the Port Authority of New York/New Jersey (PANY/NJ), but operated by by a Calpine subsidiary, KIAC Partners.

The HWGs will be used for the production of hot water for the airport terminals; they will be operated only in the event of natural gas curtailment or operational issues with the combustion turbines (Emission Sources GT001 and GT002).

These five (5) HWGs will be burning Natural Gas and Jet Fuel A.

Emission unit BOILRS is associated with the following emission points (EP):

00015, 00016, 00017, 00018, 00019, 00020, 00021, 00022, 00023, 00024, 00025

Process: BD1 is located at Building COGENB - Process BD1 is when the six boilers are firing Jet Fuel A. Use of low sulfur distillate oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. Periodic testing of low sulfur distillate oil does not exceed a total of 48 hours during any calendar year for each of the six emergency boilers (Emission Sources HWG01, HWG02, HWG03, HWG04, HWG05 & HWG06) in Emission Unit B-OILRS).

Process: BD2 is located at Building COGENB - 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.

Process: BD4 is located at Building COGENB - Process BD4 is when the HWGs are firing light distillate oil (jet fuel or #2 fuel oil) where they qualify as "Gas-Only" units, Use of Jet A Fuel oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on liquid fuel. Periodic testing of liquid fuel must not exceed a total of 48 hours during any calendar year for each of the five new HWGs (Emission Sources HWG07, HWG08, HWG09, HWG10, HWG11).

Process: BG1 is located at Building COGENB - Process BG1 is when the six boilers are firing natural gas (Use of low sulfur distillate oil is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on low sulfur distillate oil. Periodic testing of low sulfur distillate oil does not exceed a combined total of 48 hours during any calendar year).

Process: BG2 is located at Building COGENB - 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.

Process: BG3 is located at Building COGENB - Process BG3 is when the HWGs are firing natural gas, where the boilers qualify as "Gas-Only" units. Use of Jet Fuel A is limited to periods of gas curtailment, gas supply interruption, startups, or periodic testing on Jet Fuel A. Periodic testing of low sulfur distillate oil does not exceed a combined total of 48 hours during any calendar year for each of the five new HWGs (Emission Sources HWG07, HWG08, HWG09, HWG10, HWG11).

Process: BSG is located at Building COGENB - This process is when the Black Start Diesel Generator (Caterpillar 3516C) burns ultra low sulfur distillate oil.

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Emission unit U00001 - Emission Unit U-00001 consists of one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) equipped with a supplemental firing COEN duct burner (Emission Source DB001). The combustion turbine fires natural gas (Processes GT1 & GT5) as a primary fuel and low sulfur distillate oil (Processes GT3 & GT7) as a secondary backup fuel. Processes GT1 & GT3 are with supplemental firing of duct burner and Processes GT5 & GT7 are with no supplemental firing of duct burner. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

The permit authorizes software upgrades added in Title V Renewal 2 Modification 2 that was issued on 7/22/2020 which allows the software upgrade for two General Electric LM6000 (GT0001 & GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance. Specifically the Peak Performance("Throttle Push") controls software upgrade allows for increased firing temperature in the combustion turbine.

Emission unit U00001 is associated with the following emission points (EP):
E0001

Process: GT1 is located at Building COGENB - Process GT1 is the firing of natural gas in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

The permit authorizes software upgrades added in Title V Renewal 2 Modification 2 that was issued on 7/22/2020 which allows the software upgrade for two General Electric LM6000 (GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance. Specifically the Peak Performance("Throttle Push") controls software upgrade allows for increased firing temperature in the combustion turbine.

Process: GT3 is located at Building COGENB - Process GT3 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB001) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT001).

Process: GT5 is located at Building COGENB - Process GT5 is the firing of natural gas in one GE LM

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6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with no supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

The permit authorizes software upgrades added in Title V Renewal 2 Modification 2 that was issued on 7/22/2020 which allows the software upgrade for two General Electric LM6000 (GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance. Specifically the Peak Performance("Throttle Push") controls software upgrade allows for increased firing temperature in the combustion turbine.

Process: GT7 is located at Building COGENB - Process GT7 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT001) with no supplemental firing of the duct burner (Emission Source DB001) in Emission Unit U-00001. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0001, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR01) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT001).

Emission unit U00002 - 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 low sulfur distillate oil (Processes GT4 & GT8) as a secondary backup fuel. Processes GT2 & GT4 are with supplemental firing of duct burner and Processes GT6 & GT8 are with no supplemental firing of duct burner. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

Emission unit U00002 is associated with the following emission points (EP):
E0002

Process: GT2 is located at Building COGENB - Process GT2 is the firing of natural gas in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with supplemental firing of the duct burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

The permit authorizes software upgrades added in Title V Renewal 2 Modification 2 that was issued on 7/22/2020 which allows the software upgrade for two General Electric LM6000 (GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance.

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Specifically the Peak Performance("Throttle Push") controls software upgrade allows for increased firing temperature in the combustion turbine.

Process: GT4 is located at Building COGENB - Process GT4 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with supplemental firing of the duct burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The duct burner (Emission Source DB002) is limited to natural gas firing. The combustion turbine/duct burner unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT002).

Process: GT6 is located at Building COGENB - 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 low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

The permit authorizes software upgrades added in Title V Renewal 2 Modification 2 that was issued on 7/22/2020 which allows the software upgrade for two General Electric LM6000 (GT002) aeroderivative combustion turbines to enhance utilization of the existing units' capability for better performance. Specifically the Peak Performance("Throttle Push") controls software upgrade allows for increased firing temperature in the combustion turbine.

Process: GT8 is located at Building COGENB - Process GT8 is the firing of low sulfur distillate oil in one GE LM 6000 PC SPRINT combustion turbine/HRSG unit (Emission Source GT002) with no supplemental firing of the duct burner (Emission Source DB002) in Emission Unit U-00002. The combustion turbine firing natural gas as the primary fuel and low sulfur distillate oil as the secondary fuel. The combustion turbine unit vents through a stack, identified as Emission Point E0002, that is located in the COGENB area. This emission unit is equipped with a selective catalytic reduction - SCR (Emission Control SCR02) as an emission control.

Low sulfur distillate oil firing is limited to 4.8 million gallons per year per combustion turbine (Emission Source GT002).

Title V/Major Source Status

CALPINE JFK ENERGY CENTER is subject to Title V requirements. This determination is based on the following information:

The KIAC Cogeneration Plant - JFK is a major facility because the potential emissions of nitrogen oxides and volatile organic compounds are greater than the major source thresholds, which is 25 tons per year for both nitrogen oxides and volatile organic compounds. Also, the potential emissions of sulfur dioxide is greater than the major source thresholds of 100 tons/year.

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Program Applicability

The following chart summarizes the applicability of CALPINE JFK ENERGY CENTER with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	YES
NSR (non-attainment)	YES
NESHAP (40 CFR Part 61)	YES
NESHAP (MACT - 40 CFR Part 63)	YES
NSPS	YES
TITLE IV	YES
TITLE V	YES
TITLE VI	NO
RACT	YES
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52.21, 6 NYCRR 231-7, 231-8) - requirements which pertain to major stationary sources located in areas which are in attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NSR New Source Review (6 NYCRR 231-5, 231-6) - requirements which pertain to major stationary sources located in areas which are in non-attainment of National Ambient Air Quality Standards (NAAQS) for specified pollutants.

NESHAP National Emission Standards for Hazardous Air Pollutants (40 CFR 61, 6 NYCRR 200.10) - contaminant and source specific emission standards established prior to the Clean Air Act Amendments of 1990 (CAAA) which were developed for 9 air contaminants (inorganic arsenic, radon, benzene, vinyl chloride, asbestos, mercury, beryllium, radionuclides, and volatile HAP's).

MACT Maximum Achievable Control Technology (40 CFR 63, 6 NYCRR 200.10) - contaminant and source specific emission standards established by the 1990 CAAA. Under Section 112 of the CAAA, the US EPA is required to develop and promulgate emissions standards for new and existing sources. The standards are to be based on the best demonstrated control technology and practices in the regulated industry, otherwise known as MACT. The corresponding regulations apply to specific source types and contaminants.

NSPS New Source Performance Standards (40 CFR 60, 6 NYCRR 200.10) - standards of performance for specific stationary source categories developed by the US EPA under Section 111 of the CAAA. The standards apply only to those stationary sources which have been constructed or modified after the regulations have been proposed by publication in the Federal Register and only to the specific contaminant(s) listed in the regulation.

Title IV Acid Rain Control Program (40 CFR 72 thru 78, 6 NYCRR 201-6) - regulations which

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mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subpart A thru G, 6 NYCRR 200.10) - federal requirements that apply to sources which use a minimum quantity of CFC's (chlorofluorocarbons), HCFC's (hydrofluorocarbons) or other ozone depleting substances or regulated substitute substances in equipment such as air conditioners, refrigeration equipment or motor vehicle air conditioners or appliances.

RACT Reasonably Available Control Technology (6 NYCRR Parts 212-3, 220-1.6, 220-1.7, 220-2.3, 220-2.4, 226, 227-2, 228, 229, 230, 233, 234, 235, 236) - the lowest emission limit that a specific source is capable of meeting by application of control technology that is reasonably available, considering technological and economic feasibility. RACT is a control strategy used to limit emissions of VOC's and NOx for the purpose of attaining the air quality standard for ozone. The term as it is used in the above table refers to those state air pollution control regulations which specifically regulate VOC and NOx emissions.

SIP State Implementation Plan (40 CFR 52, Subpart HH, 6 NYCRR 200.10) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code

Description

4931

ELEC & OTHER SERVICES COMBINED

SCC Codes

SCC or Source Classification Code is a code developed and used" by the USEPA to categorize processes which result in air emissions for the purpose of assessing emission factor information. Each SCC represents a unique process or function within a source category logically associated with a point of air pollution emissions. Any operation that causes air pollution can be represented by one or more SCC's.

SCC Code

Description

1-03-004-02

EXTERNAL COMBUSTION BOILERS -
COMMERCIAL/INDUSTRIAL
COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL
OIL
10-100MMBTU/HR **

1-03-005-01

EXTERNAL COMBUSTION BOILERS -
COMMERCIAL/INDUSTRIAL

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1-03-006-02	COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL Grades 1 and 2 Oil EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
2-02-001-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine: Cogeneration
2-02-002-03	INTERNAL COMBUSTION ENGINES - INDUSTRIAL INDUSTRIAL INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine: Cogeneration
2-03-001-01	INTERNAL COMBUSTION ENGINES - COMMERCIAL/INSTITUTIONAL COMMERCIAL/INSTITUTIONAL IC ENGINE - DISTILLATE OIL (DIESEL) Reciprocating

Facility Emissions Summary

In the following table, the CAS No. or Chemical Abstract Service code is an identifier assigned to every chemical compound. [NOTE: Certain CAS No.'s contain a 'NY' designation within them. These are not true CAS No.'s but rather an identification which has been developed by the department to identify groups of contaminants which ordinary CAS No.'s do not do. As an example, volatile organic compounds or VOC's are identified collectively by the NY CAS No. 0NY998-00-0.] The PTE refers to the Potential to Emit. This is defined as the maximum capacity of a facility or air contaminant source to emit any air contaminant under its physical and operational design. Any physical or operational limitation on the capacity of the facility or air contamination source to emit any air contaminant, including air pollution control equipment and/or restrictions on the hours of operation, or on the type or amount or material combusted, stored, or processed, shall be treated as part of the design only if the limitation is contained in federally enforceable permit conditions. The PTE for each contaminant that is displayed represents the facility-wide PTE in tons per year (tpy) or pounds per year (lbs/yr). In some instances the PTE represents a federally enforceable emissions cap or limitation for that contaminant. The term 'HAP' refers to any of the hazardous air pollutants listed in section 112(b) of the Clean Air Act Amendments of 1990. Total emissions of all hazardous air pollutants are listed under the special NY CAS No. 0NY100-00-0. In addition, each individual hazardous air pollutant is also listed under its own specific CAS No. and is identified in the list below by the (HAP) designation.

Cas No.	Contaminant	PTE lbs/yr	PTE tons/yr	Actual lbs/yr	Actual tons/yr
000106-99-0	1,3-BUTADIENE	45		2.7	
000075-07-0	ACETALDEHYDE	1322		242	
000107-02-8	ACROLEIN	122.6		38.7	
007664-41-7	AMMONIA	127729		167800	
007440-38-2	ARSENIC	16.66		0.0673	
000071-43-2	BENZENE	668		72.9	
007440-41-7	BERYLLIUM	2.2		0.00193	
007440-43-9	CADMIUM	8.02		0.034	
000124-38-9	CARBON DIOXIDE	108200000		699754396	
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS		602040		322967
000630-08-0	CARBON MONOXIDE		103	29035.44	

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007440-47-3	CHROMIUM	16.06		0.0728
007440-48-4	COBALT	0.000388		0.0492
0NY064-29-0	COPPER (CU 064)	3.6		0.00392
000100-41-4	ETHYLBENZENE	380		193
000050-00-0	FORMALDEHYDE	9180		4290
000110-54-3	HEXANE	1052		8.31
007439-92-1	LEAD		0.0103	0.31
007439-96-5	MANGANESE	1028		4.77
007439-97-6	MERCURY	3.36		0.00844
000091-20-3	NAPHTHALENE	106.6		8.07
007440-02-0	NICKEL METAL AND INSOLUBLE COMPOUNDS	7.76		0.0375
0NY210-00-0	OXIDES OF NITROGEN		801	147455.33
0NY075-00-0	PARTICULATES	103400		48600
0NY075-00-5	PM-10		49.5	43287.87
0NY075-02-5	PM-2.5		49.5	43287.87
0NY505-00-0	POLYCYCLIC ORGANIC MATTER (POM)	117.2		13.5
000075-56-9	PROPANE, 1,2- EPOXY-	344		175
007782-49-2	SELENIUM	41.4		0.151
007446-09-5	SULFUR DIOXIDE		107	4071.43
000108-88-3	TOLUENE	177.8		786
0NY100-00-0	TOTAL HAP		7.81	5338.96
007440-62-2	VANADIUM	1.346		0.0106
0NY998-00-0	VOC		17.6	63174.33
001330-20-7	XYLENE, M, O & P MIXT.	906		387

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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 Part 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 Part 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

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the document are true, accurate, and complete.

Item D: Requirement to Comply With All Conditions - 6 NYCRR Part 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 Part 201-6.4(a)(3)

This permit may be modified, revoked, reopened and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.

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

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

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

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

Item H: Severability - 6 NYCRR Part 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 Part 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

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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 Part 201-6.4(i)

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

i. If additional applicable requirements under the Act become applicable where this permit's remaining term is 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 this 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 Part 201-6.7 and Part 621.

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.

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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.

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

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_02

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.

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

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
--			
FACILITY	ECL 19-0301	133	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 52-A.21(j)	87, 88, 89, 90, 91	Best Available Control Technology
U-00001/E0001	40CFR 52-A.21(j)	127, 128	Best Available Control Technology
U-00002/E0002	40CFR 52-A.21(j)	131, 132	Best Available Control Technology
FACILITY	40CFR 60-A.11	99	General provisions - compliance with standards and maintenance requirements
FACILITY	40CFR 60-A.12	100	General provisions - Circumvention
FACILITY	40CFR 60-A.13	101, 102	General provisions - Monitoring requirements
FACILITY	40CFR 60-A.14	103	General provisions - Modification
FACILITY	40CFR 60-A.4	92	General provisions - Address
FACILITY	40CFR 60-A.7	93	General provisions - Notification and recordkeeping
FACILITY	40CFR 60-A.7(a)	1 -18	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(b)	95	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(c)	96	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(d)	97	Notification and Recordkeeping
FACILITY	40CFR 60-A.7(f)	98	Notification and Recordkeeping
B-OILRS	40CFR 60-A.8(a)	1 -24	Performance Tests
FACILITY	40CFR 60-Db.47b	104	Emission Monitoring for Sulfur Dioxide.
FACILITY	40CFR 60-Db.48b(f)	105	Emission Monitoring for Particulate Matter and Nitrogen Oxides.
FACILITY	40CFR 60-Db.49b	106	Reporting and Recordkeeping Requirements.
U-00001/E0001	40CFR 60-Dc.48c(a)	129	Reporting and

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FACILITY	40CFR 60-Dc.48c (g)	1	-19	Recordkeeping Requirements.
U-00001/E0001	40CFR 60-GG.334 (b)	130		Reporting and Recordkeeping Requirements.
FACILITY	40CFR 60-GG.334 (h) (1)	108		Monitoring of Operations: CEMS
FACILITY	40CFR 60-GG.334 (h) (3)	109		Sulfur Content of Fuel
				Allowance not to monitor sulfur or nitrogen for natural gas
FACILITY	40CFR 60-IIII	1	-20	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
FACILITY	40CFR 63-JJJJJJ	1	-21	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
FACILITY	40CFR 63-JJJJJJ.11195	1	-22	ICI Boiler Area Source NESHAP - Boilers not subject
FACILITY	40CFR 63-JJJJJJ.11225 (a)	117		ICI Boiler Area Source NESHAP -
FACILITY	40CFR 68	18		Notifications
FACILITY	40CFR 75-C.20	120		Chemical accident prevention provisions
				CEM operation and maintenance requirements - certification and recertification procedures
FACILITY	40CFR 82-F	19		Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	40CFR 97-AAAAA.406	121		Transport Rule (TR) NOx Annual Trading Program Standard
FACILITY	40CFR 97-CCCCC.606	122		Requirments
				Transport Rule (TR) SO2 Group 1 Trading Program Standard
FACILITY	6NYCRR 200.6	1		Requirments
FACILITY	6NYCRR 200.7	10		Acceptable ambient air quality.
FACILITY	6NYCRR 201-1.4	134		Maintenance of equipment.
				Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	11		Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12		Prohibition of reintroduction of collected contaminants to the

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FACILITY	6NYCRR 201-3.2(a)	13	air
FACILITY	6NYCRR 201-3.3(a)	14	Exempt Activities -
FACILITY	6NYCRR 201-6	20, 123, 124	Proof of eligibility
FACILITY	6NYCRR 201-6.4(a)(4)	15	Trivial Activities -
FACILITY	6NYCRR 201-6.4(a)(7)	2	proof of eligibility
FACILITY	6NYCRR 201-6.4(a)(8)	16	Title V Permits and
FACILITY	6NYCRR 201-6.4(b)	21, 22, 23, 24, 25,	the Associated Permit
FACILITY	6NYCRR 201-6.4(c)	26, 27, 28	Conditions
FACILITY	6NYCRR 201-6.4(c)(2)	4	General Conditions -
FACILITY	6NYCRR 201-6.4(c)(3)(i)	5	Requirement to
FACILITY	6NYCRR 201-6.4(d)(4)	29	Provide Information
FACILITY	6NYCRR 201-6.4(e)	6	General Conditions -
FACILITY	6NYCRR 201-6.4(f)	30	Fees
FACILITY	6NYCRR 201-6.5(a)	135	General Conditions -
FACILITY	6NYCRR 202-1.1	17	Right to Inspect
FACILITY	6NYCRR 202-1.5	37	Permit Conditions for
FACILITY	6NYCRR 202-2.4(a)(3)	1 -1	Monitoring
FACILITY	6NYCRR 202-2.5	8	Recordkeeping and
FACILITY	6NYCRR 207.2	1 -2	Reporting of
FACILITY	6NYCRR 211.1	136, 137	Compliance Monitoring
FACILITY	6NYCRR 211.2	40	Records of
FACILITY	6NYCRR 215.2	9	Monitoring, Sampling
FACILITY	6NYCRR 225-1.2(d)	1 -3	and Measurement
FACILITY	6NYCRR 225-1.4(a)	1 -4	Reporting
FACILITY	6NYCRR 225-1.5(c)	43	Requirements -
FACILITY	6NYCRR 225-1.6(b)	44, 1 -5, 1 -6	Deviations and
FACILITY	6NYCRR 225-1.6(f)	1 -7	Noncompliance
FACILITY	6NYCRR 227-1	45, 46	Compliance Schedules
FACILITY	6NYCRR 227-1.3(a)	1 -8	- Progress Reports
			Compliance
			Certification
			Operational
			Flexibility
			State Enforceable
			Requirements
			Required emissions
			tests.
			Prohibitions.
			Emission statement
			methods and
			procedures
			Emission Statements -
			record keeping
			requirements.
			Episode action plan.
			General Prohibitions
			- air pollution
			prohibited
			General Prohibitions
			- visible emissions
			limited.
			Open Fires -
			Prohibitions
			Sulfur-in-Fuel
			Limitation -
			Distillate Oil
			Sulfur-in-Fuel
			Variances
			Fuel Monitoring
			Fuel Analysis Records
			Excess Emission
			Reports
			Stationary Combustion
			Installations
			Particulate Emission

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B-OILRS	6NYCRR 227-1.3(c)	126	Standards
FACILITY	6NYCRR 227-1.4(a)	48, 49, 1 -9, 1 -10	Annual Tune-up Requirement
FACILITY	6NYCRR 227-1.5(b)(2)	52	Opacity Standard
B-OILRS	6NYCRR 227-2.4(c)(1)	1 -23	Excess Emissions & Monitoring System Reports
FACILITY	6NYCRR 227-2.5(c)	56, 57, 58	Emission limits.
FACILITY	6NYCRR 227-2.6	59	Alternative RACT option.
FACILITY	6NYCRR 227-2.6(a)	60	Testing, monitoring, and reporting requirements
FACILITY	6NYCRR 227-2.6(b)	61	Applicable testing and/or monitoring requirements.
FACILITY	6NYCRR 231-11.2(c)	85	CEMS requirements
FACILITY	6NYCRR 231-2.7(b)	64, 65, 66, 67, 69, 70, 71, 78, 1 -11, 1 -12, 1 -13, 1 -14, 1 -15, 1 -16	Reasonable Possibility requirements for insignificant mods - greater than 50% with excluded emissions
FACILITY	6NYCRR 231-6.2	1 -17	Net emission increase determination
FACILITY	6NYCRR 242-1.5	140, 141, 142	Netting
FACILITY	6NYCRR 242-8.5	143	CO2 Budget Trading Program - Standard requirements
FACILITY	6NYCRR 251.3(b)	144	CO2 Budget Trading Program - Recordkeeping and reporting
FACILITY	6NYCRR 251.5	145	Emission limits for non-modified sources.
FACILITY	6NYCRR 251.6(d)	146	Monitoring
			Vendor Certified Fuel Receipts

Applicability Discussion:

Mandatory Requirements: The following facility-wide regulations are included in all Title V permits:

ECL 19-0301

This section of the Environmental Conservation Law establishes the powers and duties assigned to the Department with regard to administering the air pollution control program for New York State.

6 NYCRR 200.6

Acceptable ambient air quality - prohibits contravention of ambient air quality standards without mitigating measures

6 NYCRR 200.7

Anyone owning or operating an air contamination source which is equipped with an emission control device must operate the control consistent with ordinary and necessary practices, standards and procedures, as per manufacturer's specifications and keep it in a satisfactory state of maintenance and repair so that it operates effectively

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6 NYCRR 201-1.4

This regulation specifies the actions and recordkeeping and reporting requirements for any violation of an applicable state enforceable emission standard that results from a necessary scheduled equipment maintenance, start-up, shutdown, malfunction or upset in the event that these are unavoidable.

6 NYCRR 201-1.7

Requires the recycle and salvage of collected air contaminants where practical

6 NYCRR 201-1.8

Prohibits the reintroduction of collected air contaminants to the outside air

6 NYCRR 201-3.2 (a)

An owner and/or operator of an exempt emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains exempt emission sources or units, 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.

6 NYCRR 201-3.3 (a)

The owner and/or operator of a trivial emission source or unit may be required to certify that it operates within the specific criteria described in this Subpart. All required records must be maintained on-site for a period of 5 years and made available to department representatives upon request. In addition, department representatives must be granted access to any facility which contains trivial emission sources or units subject to 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.

6 NYCRR Subpart 201-6

This regulation applies to those terms and conditions which are subject to Title V permitting. It establishes the applicability criteria for Title V permits, the information to be included in all Title V permit applications as well as the permit content and terms of permit issuance. This rule also specifies the compliance, monitoring, recordkeeping, reporting, fee, and procedural requirements that need to be met to obtain a Title V permit, modify the permit and demonstrate conformity with applicable requirements as listed in the Title V permit. For permitting purposes, this rule specifies the need to identify and describe all emission units, processes and products in the permit application as well as providing the Department the authority to include this and any other information that it deems necessary to determine the compliance status of the facility.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide information that the Department may request in writing, within a reasonable time, in order to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. The request may include copies of records required to be kept by the permit.

6 NYCRR 201-6.4 (a) (7)

This is a mandatory condition that requires the owner or operator of a facility subject to Title V requirements to pay all applicable fees associated with the emissions from their facility.

6 NYCRR 201-6.4 (a) (8)

This is a mandatory condition for all facilities subject to Title V requirements. It allows the Department to inspect the facility to determine compliance with this permit, including copying records, sampling and

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monitoring, as necessary.

6 NYCRR 201-6.4 (c)

This requirement specifies, in general terms, what information must be contained in any required compliance monitoring records and reports. This includes the date, time and place of any sampling, measurements and analyses; who performed the analyses; analytical techniques and methods used as well as any required QA/QC procedures; results of the analyses; the operating conditions at the time of sampling or measurement and the identification of any permit deviations. All such reports must also be certified by the designated responsible official of the facility.

6 NYCRR 201-6.4 (c) (2)

This requirement specifies that all compliance monitoring and recordkeeping is to be conducted according to the terms and conditions of the permit and follow all QA requirements found in applicable regulations. It also requires monitoring records and supporting information to be retained for at least 5 years from the time of sampling, measurement, report or application. Support information is defined as including all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

6 NYCRR 201-6.4 (c) (3) (ii)

This regulation specifies any reporting requirements incorporated into the permit must include provisions regarding the notification and reporting of permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken.

6 NYCRR 201-6.4 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports, detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

6 NYCRR 201-6.4 (e)

Sets forth the general requirements for compliance certification content; specifies an annual submittal frequency; and identifies the EPA and appropriate regional office address where the reports are to be sent.

6 NYCRR 202-1.1

This regulation allows the department the discretion to require an emission test for the purpose of determining compliance. Furthermore, the cost of the test, including the preparation of the report are to be borne by the owner/operator of the source.

6 NYCRR 202-2.5

This rule specifies that each facility required to submit an emission statement must retain a copy of the statement and supporting documentation for at least 5 years and must make the information available to department representatives.

6 NYCRR 211.2

This regulation limits opacity from sources to less than or equal to 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

6 NYCRR 215.2

Except as allowed by section 215.3 of 6 NYCRR Part 215, no person shall burn, cause, suffer, allow or permit the burning of any materials in an open fire.

40 CFR Part 68

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This Part lists the regulated substances and their applicability thresholds and sets the requirements for stationary sources concerning the prevention of accidental releases of these substances.

40 CFR Part 82, Subpart F

Subpart F requires the reduction of emissions of class I and class II refrigerants to the lowest achievable level during the service, maintenance, repair, and disposal of appliances in accordance with section 608 of the Clean Air Act Amendments of 1990. This subpart applies to any person servicing, maintaining, or repairing appliances except for motor vehicle air conditioners. It also applies to persons disposing of appliances, including motor vehicle air conditioners, refrigerant reclaimers, appliance owners, and manufacturers of appliances and recycling and recovery equipment. Those individuals, operations, or activities affected by this rule, may be required to comply with specified disposal, recycling, or recovery practices, leak repair practices, recordkeeping and/or technician certification requirements.

Facility Specific Requirements

In addition to Title V, CALPINE JFK ENERGY CENTER has been determined to be subject to the following regulations:

40 CFR 52.21 (j)

BACT determinations are made on a case-by-case basis and can be no less stringent than any requirement that exists in the current State Implementation Plan (SIP) or 40 CFR 60 and 61. Emission and operational limitations required from a BACT determination will have to be entered into the special permit conditions, separately by the permit reviewer.

40 CFR 60.11

This regulation specifies the type of opacity monitoring requirements in relation to compliance with the standards and maintenance requirements.

40 CFR 60.12

This regulation prohibits an owner or operator from concealing emissions in violation of applicable standards by any means.

40 CFR 60.13

This regulation specifies how monitoring shall be performed and which methods and appendices are used to determine if the monitoring is adequate and in compliance with the regulated standards.

40 CFR 60.14

This regulation defines the term modification and what is and is not considered to be a modification, for the purpose of rule applicability.

40 CFR 60.334 (b)

This regulation allows the owner/operator of a gas turbine to use a CEMS to monitor NOx emissions instead of monitoring fuel and water/steam usage.

40 CFR 60.334 (h) (1)

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This regulation requires the owner or operator of a gas turbine to monitor the sulfur content of the fuel burned in the turbine.

40 CFR 60.334 (h) (3)

This regulation allows the owner or operator of a gas turbine to not monitor the fuel for sulfur or nitrogen content if the fuel meets the 40 CFR 60.331(u) definition of natural gas.

40 CFR 60.4

This condition lists the USEPA Region 2 address for the submittal of all communications to the "Administrator". In addition, all such communications must be copied to NYSDEC Bureau of Quality Assurance (BQA).

40 CFR 60.47b

This regulation is for emission monitoring for sulfur dioxide. This regulation specifies the requirements and procedures for complying with the emissions of sulfur dioxide from industrial-commercial steam generating units. 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 of a facility, 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 oil supplier, which certify that the oil meets the definition of distillate oil as defined in 40 CFR 60.41b. For the purposes of this requirement, the oil need not meet the fuel nitrogen content specification in the definition of distillate oil.

40 CFR 60.48b (f)

This regulation requires that standby methods of obtaining minimum emissions data for oxides of nitrogen be specified by the source owner or operator.

40 CFR 60.48c (a)

This regulation requires the owner and operator of each affected facility to submit notification of the date of construction or reconstruction, anticipated startup, and actual startup of the facility. The notification must include the following information:

- (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.

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40 CFR 60.48c (g)

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

40 CFR 60.49b

This rule specifies the reporting and recordkeeping requirements for affected steam generating units.

40 CFR 60.7

This regulation is for general provisions - notification and recordkeeping. This regulation specifies and identifies those facilities that are required to install CEMs devices to submit an excess emissions and monitoring systems performance report.

40 CFR 60.7 (a)

This regulation requires any owner or operator subject to a New Source Performance Standard (NSPS) to furnish the Administrator with notification of the dates of: construction or reconstruction, initial startup, any physical or operational changes, commencement of performance testing for continuous monitors and anticipated date for opacity observations as required.

40 CFR 60.7 (b)

This regulation requires the owner or operator to maintain records of the occurrence and duration of any startup, shutdown, or malfunction of the source or control equipment or continuous monitoring system.

40 CFR 60.7 (c)

This requirement details the information to be submitted in excess emissions and monitoring systems performance reports which must be submitted at least semi-annually for sources with compliance monitoring systems.

40 CFR 60.7 (d)

This condition specifies the required information and format for a summary report form and details when either a summary form and/or excess emissions reports are required.

40 CFR 60.7 (f)

This condition specifies requirements for maintenance of files of all measurements, including continuous monitoring system (CMS), monitoring device, and performance testing measurements; all CMS performance evaluations; all CMS or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices for at least two years.

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40 CFR 60.8 (a)

This regulation contains the requirements for the completion date and reporting of Performance Testing (stack testing), at the facility. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup, the owner or operator of the facility must conduct performance test(s) and furnish a written report of the test results.

40 CFR 63.11195

This condition states what boilers are not subject to 40 CFR 63 Subpart JJJJJ.

40 CFR 63.11225 (a)

This condition states what notifications must be submitted.

40 CFR 75.20

This section requires the facility to ensure that each emission or opacity monitoring system, including automated data acquisition and handling systems, meet the initial certification requirements of this section. It requires that all applicable initial certification tests are completed by the deadlines specified in § 75.4 and prior to use in the Acid Rain Program.

40 CFR 97.406

This condition provides the general requirements for implementing EPAs Transport Rule (TR) 40 CFR Part 97, Subpart AAAAA; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of Nitrogen Oxide (NO_x) and to hold TR annual NO_x allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR 97.606

This condition provides the general requirements for implementing EPAs Transport Rule (TR) 40 CFR Part 97, Subpart CCCCC; intended to reduce the interstate transport of fine particulate matter and ozone. This particular condition requires facilities to measure and report their emissions of sulfur dioxide (SO₂) annually and to hold TR annual SO₂ allowances sufficient to cover these emissions. Commonly referred to as a budget trading program, each State has an established 'budget' of emissions that are distributed or sold to facilities, which, in turn, can only emit as much as they hold in allowances.

40 CFR Part 60, Subpart IIII

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40 CFR Part 63, Subpart JJJJJ

This regulation covers facilities that own or operate an industrial, commercial, or institutional boiler as defined in §63.11237 that is located at, or is part of, an area source of hazardous air pollutants (HAP), as defined in §63.2, except as specified in §63.11195.

6 NYCRR 201-6.4 (b)

This section describes the permit conditions for monitoring the ammonia emissions.

6 NYCRR 201-6.4 (f)

This section describes the potential for certain operational changes to be made by the facility owner or operator without first obtaining a permit modification. Changes made pursuant to this provision must meet all of the criteria described in this section to qualify for consideration as operational flexibility. The Department reserves the right to require the facility owner or operator to obtain a permit modification prior to making any changes at the facility pursuant to this section.

6 NYCRR 201-6.5 (a)

This subdivision states that the Department shall include state enforceable conditions in Title V permits. State enforceable conditions related to regulations developed pursuant to the Climate Leadership and Community Protection Act (CLCPA) and Article 75 of New York State Environmental Conservation Law may be included in future versions of this permit, as applicable.

6 NYCRR 202-1.5

This rule prohibits the concealment of an emission by the use of air or other gaseous diluents (diluting agents) to achieve compliance with an emission standard which is based on the concentration of a contaminant in the gases emitted through a stack.

6 NYCRR 202-2.4 (a) (3)

Once a facility is required to submit annual emission statements electronically, emission statements must be submitted to the department per the specified schedule, in this regulation beginning the reporting year that a Title V permit containing a condition mandating electronic submittal is issued.

6 NYCRR 207.2

6 NYCRR 211.1

This regulation requires that no person shall cause or allow emissions of air contaminants to the outdoor

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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.

6 NYCRR 225-1.2 (d)

This subdivision sets the sulfur-in-fuel limitation for distillate oil fired emission sources throughout the State.

6 NYCRR 225-1.4 (a)

This subdivision allows for fuel mixtures or equivalent emission rate variances from the sulfur-in-fuel limitations of this Subpart.

6 NYCRR 225-1.5 (c)

This subdivision requires specific measurements of the fuel fired at a facility that employs a CEM.

6 NYCRR 225-1.6 (b)

This subdivision requires the retention of fuel analyses at a subject facility.

6 NYCRR 225-1.6 (f)

This subdivision requires the submission of excess emission reports when the the sulfur-in-fuel limitation, equivalent emission rate, or measured emissions exceeds the allowable standard.

6 NYCRR 227-1.3 (a)

This subdivision sets the particulate matter emission standards for subject stationary combustion installations.

6 NYCRR 227-1.3 (c)

This subdivision requires that all stationary combustion installations subject to this subpart perform an annual tune-up.

6 NYCRR 227-1.4 (a)

This subdivisions sets the opacity standard for subject stationary combustion installations.

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6 NYCRR 227-1.5 (b) (2)

This paragraph contains the excess emissions and monitoring system reporting requirements for emission sources required to utilize a continuous opacity monitor.

6 NYCRR 227-2.4 (c) (1)

Presumptive NOx RACT emission limits for mid-size boilers.

6 NYCRR 227-2.5 (c)

This provision allows the owner or operator to demonstrate that the applicable presumptive RACT emission limit in section 227-2.4 of this Subpart is not economically or technically feasible. Based on this determination the Department is allowed to set a higher emission source specific emission limit.

6 NYCRR 227-2.6

This regulation establishes the compliance testing, monitoring, and reporting requirements for NOx RACT affected stationary combustion installations.

6 NYCRR 227-2.6 (a)

Applicable testing and/or monitoring requirements for emission sources subject to NOx RACT.

6 NYCRR 227-2.6 (b)

Any owner or operator of a combustion source subject to reasonably available control technology (RACT) requirements, under this subdivision, for NOx and either is required or opts to employ a continuous emissions monitoring system (CEMS) must:

- 1) Submit a CEMS monitoring plan for approval by the Department,
- 2) Submit a CEMS certification protocol,
- 3) Meet CEMS monitoring requirements as detailed in this paragraph of this subdivision, and
- 4) Meet CEMS recordkeeping and reporting requirements as detailed in this paragraph of this subdivision.

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6 NYCRR 231-11.2 (c)

This citation lists the record keeping requirements for insignificant modifications that are greater than 50% of the threshold including excluded emissions as defined in 231-4.1(b)(40)(i)(c) of this Part.

6 NYCRR 231-2.7 (b)

The provisions of Subpart 231-2 apply to new or modified major facilities. The contaminants of concern state-wide are nitrogen oxides and volatile organic compounds since New York State is located in the ozone transport region and because there are ozone non-attainment areas within the state. In the New York City metropolitan area, carbon monoxide is also a non-attainment contaminant. In addition, particulate matter less than 10 microns in size (PM-10) is a non-attainment contaminant in Manhattan County.

Pursuant to section 231-2.7, existing major facilities may avoid the requirements of Subpart 231-2 by conducting a netting analysis. This is done by utilizing the following equation:

$$\text{NEI} = \text{PEP} + \text{CEI} - \text{ERCs}$$

where:

NEI = net emission increase

PEP = project emission potential for the proposed source project

CEI = creditable emission increases

ERCs = emission reduction credits

All of the creditable emission increases and emission reduction credits must have occurred at the facility for which the netting analysis is being conducted and must have occurred during the contemporaneous period for the proposed project. If the net emission increase is less than the threshold values incorporated into sections 231-2.12 and 231-2.13, then the the proposed source project is not subject to the requirements of Subpart 231-2.

6 NYCRR 231-6.2

This section establishes the requirements for performing a netting analysis.

6 NYCRR 242-1.5

His regulation requires that the facility hold enough carbon dioxide allowances in their carbon dioxide budget at least equal to the amount of carbon dioxide emitted from the facility each year.

6 NYCRR 242-8.5

This regulation requires the CO₂ authorized account representative to comply with all applicable recordkeeping and reporting requirements in section 242-8.5, the applicable record keeping and reporting requirements under 40 CFR 75.73 and with the certification requirements of section 242-2.1(e) of this Part.

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6 NYCRR 251.3 (b)

Emission limits for non-modified sources.

6 NYCRR 251.5

Monitoring section.

6 NYCRR 251.6 (d)

This subdivision sets the requirements for the maintenance of Vendor certified fuel receipts.

6 NYCRR Subpart 227-1

This Subpart regulates particulate matter emissions and opacity from applicable stationary combustion installations.

Compliance Certification

Summary of monitoring activities at CALPINE JFK ENERGY CENTER:

Location Facility/EU/EP/Process/ES	Cond No.	Type of Monitoring

FACILITY	87	work practice involving specific operations
FACILITY	88	record keeping/maintenance procedures
FACILITY	89	record keeping/maintenance procedures
FACILITY	90	work practice involving specific operations
FACILITY	91	work practice involving specific operations
U-00001/E0001	127	record keeping/maintenance procedures
U-00001/E0001	128	record keeping/maintenance procedures
U-00002/E0002	131	record keeping/maintenance procedures
U-00002/E0002	132	record keeping/maintenance procedures
FACILITY	99	record keeping/maintenance procedures
FACILITY	93	record keeping/maintenance procedures
FACILITY	96	record keeping/maintenance procedures
FACILITY	104	record keeping/maintenance procedures
FACILITY	105	record keeping/maintenance procedures
FACILITY	106	record keeping/maintenance procedures
U-00001/E0001	129	record keeping/maintenance procedures
FACILITY	1-19	record keeping/maintenance procedures
FACILITY	108	monitoring of process or control device parameters as surrogate
FACILITY	109	monitoring of process or control device parameters as surrogate

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FACILITY	117	record keeping/maintenance procedures
FACILITY	120	record keeping/maintenance procedures
FACILITY	121	record keeping/maintenance procedures
FACILITY	122	record keeping/maintenance procedures
FACILITY	21	continuous emission monitoring (cem)
FACILITY	22	continuous emission monitoring (cem)
FACILITY	23	continuous emission monitoring (cem)
FACILITY	24	continuous emission monitoring (cem)
FACILITY	25	continuous emission monitoring (cem)
FACILITY	26	continuous emission monitoring (cem)
FACILITY	27	continuous emission monitoring (cem)
FACILITY	28	continuous emission monitoring (cem)
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	34	monitoring of process or control device parameters as surrogate
FACILITY	35	monitoring of process or control device parameters as surrogate
FACILITY	36	work practice involving specific operations
FACILITY	1-2	record keeping/maintenance procedures
FACILITY	137	record keeping/maintenance procedures
FACILITY	1-3	work practice involving specific operations
FACILITY	1-4	work practice involving specific operations
FACILITY	43	record keeping/maintenance procedures
FACILITY	1-5	record keeping/maintenance procedures
FACILITY	1-6	record keeping/maintenance procedures
FACILITY	44	record keeping/maintenance procedures
FACILITY	1-7	record keeping/maintenance procedures
FACILITY	45	record keeping/maintenance procedures
FACILITY	46	record keeping/maintenance procedures
FACILITY	1-8	record keeping/maintenance procedures
B-OILRS	126	record keeping/maintenance procedures
FACILITY	1-9	monitoring of process or control device parameters as surrogate
FACILITY	1-10	record keeping/maintenance procedures
FACILITY	48	monitoring of process or control device parameters as surrogate
FACILITY	49	monitoring of process or control device parameters as surrogate
FACILITY	52	record keeping/maintenance procedures
B-OILRS	1-23	intermittent emission testing
FACILITY	56	monitoring of process or control device parameters as surrogate
FACILITY	57	intermittent emission testing
FACILITY	58	intermittent emission testing
FACILITY	59	record keeping/maintenance procedures
FACILITY	60	record keeping/maintenance procedures
FACILITY	61	record keeping/maintenance procedures
FACILITY	85	record keeping/maintenance procedures
FACILITY	1-11	continuous emission monitoring (cem)
FACILITY	1-12	monitoring of process or control device parameters as surrogate
FACILITY	1-13	monitoring of process or control device parameters as surrogate
FACILITY	1-14	monitoring of process or control device parameters as surrogate
FACILITY	1-15	monitoring of process or control device parameters as surrogate
FACILITY	1-16	monitoring of process or control device parameters as surrogate
FACILITY	64	continuous emission monitoring (cem)
FACILITY	65	continuous emission monitoring (cem)
FACILITY	66	continuous emission monitoring (cem)
FACILITY	67	continuous emission monitoring (cem)
FACILITY	69	continuous emission monitoring (cem)

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FACILITY	70	continuous emission monitoring (cem)
FACILITY	71	continuous emission monitoring (cem)
FACILITY	78	continuous emission monitoring (cem)
FACILITY	1-17	monitoring of process or control device parameters as surrogate
FACILITY	141	record keeping/maintenance procedures
FACILITY	142	record keeping/maintenance procedures
FACILITY	143	record keeping/maintenance procedures
FACILITY	144	monitoring of process or control device parameters as surrogate
FACILITY	145	record keeping/maintenance procedures
FACILITY	146	record keeping/maintenance procedures

Basis for Monitoring

6 NYCRR Subpart 231-6.2

The Significant Project threshold for potential NO_x emission is 2.5 tons/year. However, the project emission potential NO_x Emissions from the new hot water generators (HWG) and the new Black Start Generator is 14.68 tons/year. The project potential emissions exceed the Significant Project threshold. However, the net emission change of 16.69 tons/year, is below the Non-attainment NSR Significant Net Emission Increase Threshold of 25 tons/year. The permit condition limits the project emission potential of NO_x to 14.68 tons/year to ensure on going compliance with this subpart. The facility has demonstrated to the Department's satisfaction that this project is able to net out of the Department's New Source Review (NSR) requirements. Accordingly, limitations on the projected emissions NO_x have been placed in the permit to ensure compliance with the netting requirements of NSR. Therefore, NSR is not applicable for this facility modification.

6 NYCRR 227-2.4 (c):

This subpart is for facilities that operate Mid-size boilers to comply with the relevant presumptive RACT (Reasonably Available Control Technology) emission limit. The five (5) new HWG to be installed for this permit modification will be subjected to a NO_x RACT limit of 0.08 pounds per million Btus of NO_x. Compliance with this subpart will be verified by stack test once every five years.

6 NYCRR 227-2.4 (e)(2):

Subpart 231-2.7 requires the facility to reach LAER (Lowest Achievable Emission Rate) emission limits. The facility will achieve this by having CEMS (Continuous Emissions Monitoring System) to continuously monitor emissions. NYCRR Part 227-2.4(e)(2) RACT conditions are not added to the permit since 231 LAER conditions are more stringent.

6 NYCRR Subpart 231-2.7

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The conditions under this regulation has been streamlined in the permit. In this modification, the Department has consolidated the conditions to incorporate the turbines with the respective processes, instead of separating the conditions since the emission limits are the same per processes.

6NYCRR Part 225-1.4 (a)

This subpart allows for variances for fuel mixtures or equivalent emission rate variances. KIAC proposes to use a sulfur variance because the cogeneration combustion turbines and the hot water generators burn Jet A fuel oil that is delivered to JFK Airport and then to KIAC via pipeline. The Jet A fuel sulfur content may exceed 15 ppm. Compliance will be based on the total heat input from all fuels fired, including gaseous fuels.

Fuels with sulfur content greater than that allowed by Subpart 225 may be fired with demonstration that sulfur dioxide (SO₂) emissions do not exceed the value for S calculated using the following equation:

$$S = (1.1AM + 2BT)/(M + T)$$

where:

S = Allowable SO₂ emission (lb/MMBtu)

A = Sulfur in oil allowed by section 225-1.2 of this Subpart (% by weight)

B = Sulfur in solid fuel allowed by section 225-1.2 of this Subpart (lb/MMBtu)

M = Percent of total heat input from liquid fuel

T = Percent of total heat input from solid fuel

Because only natural gas and distillate oil (and no solid fuels) are burned at KIAC, the applicable SO₂ emission limit (S) from the above equation reduces to: $S = 1.1 \times 0.0015 = 0.00165$ lb/mmBTU

Compliance will be demonstrated on a calendar year basis by summing actual calendar year fuel usage for each fuel type and calculating actual SO₂ emissions based on actual gas and oil sulfur contents from the latest available fuel sampling and analysis. The facility shall use to calculate the facility wide SO₂ emissions to ensure they do not exceed the limit set at 0.00165 lb/mmBTU.

Compliance with this limit will be based a weighted average SO₂ emission rate, calculated based on the consumption of each fuel type and the on-fuel supplier certifications for sulfur content and BTU content of each fuel.

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40 CFR 60 Subpart Dc

40CFR60.42c(d) and 40CFR60.42c (h) states the SO₂ is 0.5 lb/mmBTU and limit can be verified through certification from the fuel supplier, as described under § 60.48c(f), respectively. However, 6 NYCRR Subpart 227-1.4's sulfur variance limit being 0.00165 lb/mmBTU, it is more stringent than 40 CFR 60 Dc. Therefore, 40 CFR 60 Dc is not cited in this permit.

40 CFR 64.2 (a) (2)

This facility does not have a control device to achieve compliance with any emission limitations or standards. Therefore, this facility is not subjected to this regulation.