

**Division of Air Resources
Permit Review Report**

Permit ID: 2-6205-00246/00005
Renewal Number: 3
10/09/2020

Facility Identification Data

Name: NYU CENTRAL PLANT
Address: 251 MERCER ST
NEW YORK, NY 10012

Owner/Firm

Name: NEW YORK UNIVERSITY
Address: 70 WASHINGTON SQ S
NEW YORK, NY 10012-1019, USA
Owner Classification: Corporation/Partnership

Permit Contacts

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**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

Application for renewal of Air Title V Facility.

Attainment Status

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NYU CENTRAL PLANT is located in the town of MANHATTAN in the county of NEW YORK. 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)	MODERATE NON-ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* 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:

New York University's Central Plant is an on campus, subterranean, central cogeneration power plant at a major urban university in New York City. NYU is an existing Title V major facility in a non-attainment area, and attainment area of the state within the ozone transport region, pending the particular contaminant in question. The plant consists of:

Emission Unit 1-0000: Two, dual fueled (natural gas and ultra-low sulfur diesel) 5.5. MW Solar Taurus Model 60 turbines, each with a heat recovery steam generator (HRSG) and duct burner (natural gas only and never operating without its turbine), and

Three 65 MM Btu/hr dual-fired, natural gas and ultra-low sulfur distillate #2 fuel oil boilers.

Emission Unit 2-0000: Currently, two engines are being constructed and installed (in the space vacated by the removal of the seven old diesel-fired, Caterpillar D399 compression ignition engines combustion Emission Sources ENG01 through ENG07) and anticipated to go on-line during the first year of the renewed 5-year permit term:

1. The first engine identified as Emission Source ENG08 is a 2.6 MW (4.55 MM Btu/hr or 2649 KW) four stroke lean burn spark ignited natural gas-fired GE-Jenbacher JSM-616 engine generator (PTE 10.67 tons of NOx per year). Approved control technology pollution controls include add-on selective catalytic reduction with urea feed for NOx reduction, and an oxidation catalyst for CO and VOC reduction. The engine will meet the NYSDEC presumptive standard for natural gas-fired engines, the federal New Source Performance Standards (NSPS) for stationary spark ignition internal combustion engines (40 CFR 60 Subpart JJJJ) for NOx, CO and VOC. The PTE-establishing arbitrary level of 0.3 g/bhp-hr for all three parameters (NOx, CO and VOC) and 0.04 g/bhp-hr for PM-10, will meet NSPS Subpart JJJJ compliance of 1.0 g/bhp-hr, which meets the NYSDEC presumptive standard for natural gas-fired engines of 1.5 g/bhp-hr. Applicability to NESHAPs Subpart ZZZZ (40 CFR 63.6590) is met by meeting the requirements of Subpart JJJJ.

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For non-emergency spark ignited natural gas engines greater than or equal to 500 HP and manufactured July 2010 or after, the NSPS emission standards are:

NSPS JJJJ	NO _x	CO	VOC
g/bhp-hr	1.0	2.0	0.7
ppmvd	82	270	60

2. The second engine identified as Emission Source ENG08 is a 2.5 MW diesel-fired certified Caterpillar 3516C, Tier 4 engine generator (2500 KW or 3627 HP) serving as dispatch for demand response programs and as black start power for the plant. Capping at 500 hours/year calculates to 1.16 tons of NO_x/year (4.63 lb/hr x 500 hours/year). The 4.63 lb/hr NO_x emission factor is equivalent to 0.59 g/bhp-hr. This engine utilizes proprietary built-in emissions controls and its exhaust will not pass through the Jenbacher SCR system: features diesel oxidation catalyst combined with a selective catalytic reduction module and an air-assisted urea injection system. The catalyst-based control systems come from the factory as a serialized component "married" to the engine and cannot be installed separately from the machine per EPA regulations. The engine will have an EPA certification sticker, thus no additional certifications are needed. NSPS 40 CFR Part 60 Subpart IIII regulations for Stationary Compression Ignition Internal Combustion Engines covers the CAT permitting applicability. Applicability to NESHAPs Subpart ZZZZ is met by meeting the requirements of Subpart IIII.

The CAT generator set is optimized for use with the CAT clean emissions module (CEM), with the after-treatment system featuring a diesel oxidation catalyst combined with a selective catalytic reduction module and an air-assisted urea injection system. The generator set also features integrated electronics for monitoring, protection and closed loop NO_x control, an ADEM A4 panel.

The Caterpillar engine NSPS Subpart IIII general standards for engines of KW >560 / HP > 750 will be met as listed below:

NSPS IIII	NO _x	CO	PM	HC
g/bhp-hr	6.9	8.5	0.40	1.0
g/KW-hr	9.2	11.4	0.54	1.3

Based on an arbitrary NO_x emission factor for the GE-Jenbacher engine of 0.3 g/bhp-hr for NO_x (which will be confirmed by the emission control technology plan and the add-on pollution controls), the firing of the controlled GE-Jenbacher JSM-616 engine generator on natural gas and its maximum operation of 365 days/yr and 24 hours /day (8760 hours per year) with add-on controls would emit 10.67 tons of NO_x per year. The firing of the CAT 3516C engine generator on diesel and the capping of 500 hours/year calculates to 1.16 ton/year (4.63 lb/hr x 500 hours) for a total project NO_x of 11.83 tons per year (23,660 lbs/yr).

The emissions of the CAT and the Jenbacher engines will exhaust to the existing stack #2 through Emission point 00002, with its continuous opacity monitor system (COMS).

Both engines require an initial performance test within one year after start-up to demonstrate compliance with the applicable emissions standard, and subsequent testing every 8760 hours or every three years, whichever comes first, to demonstrate on-going compliance according to 40 CFR 60.4211, Subpart IIII for the CI - Compression Ignition Caterpillar engine and according to 40 CFR 63.4243, Subpart JJJJ for the SI -Spark Ignited Jenbacher engine.

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The permit includes all caps/netting out of NOx in tons per year, the capping certification is annual for the following:

Facility	158.5
Turbines and duct burners, oil & gas	104.23
Turbines only, oil & gas	40.4
Jenbacher gas engine	10.67
Caterpillar oil engine	1.16 and 500 hours per year operation
Combined Jenbacher and Caterpillar engine	11.83

The facility conducts stack testing on the following emission sources:

Turbines and duct burners - annually.

Boilers - once every 5 years.

Jenbacher engine - initial and subsequent every 8760 hours or 3 years, whichever comes first.

Caterpillar engine - initial and subsequent every 8760 hours or 3 years, whichever comes first.

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Permit Structure and Description of Operations

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The Title V permit for NYU CENTRAL PLANT

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.

NYU CENTRAL PLANT is defined by the following emission unit(s):

Emission unit 100000 - The Central Power Plant at NYU provides electricity and high temperature hot water and steam for heating and cooling of university buildings year round. Emission Unit 1-00000 located in the sub-basement of 251 Mercer Street is part of the Central Plant and currently has three identical mid size high temperature hot water boilers of 65 MM Btu/hr each (Emission Sources 0BLRA, 0BLRB & 0BLRC) used for hot water. Each boiler is capable of burning natural gas (Process 001) and # 2 fuel oil - distillate fuel oil (Process 006). Emissions from the three boilers are exhausted through a single emission point, a nine foot diameter stack on the roof of 251 Mercer Street, identified as Emission Point 00001. A licensed operating engineer is on duty at all times.

Also emitting through this emission point at the plant are two 5.5 MW gas turbines (Emission Sources TURB1 & TURB2) burning natural gas (Process 004) and # 2 ultra low sulfur distillate fuel oil (Process 005), and two 70 MM Btu/hr duct burners (Emission Controls DUCT1 & DUCT2) fueled by natural gas (Process 004) for cogeneration with the two turbines. The facility's electrical output is approximately 11 MW from the two turbines (2 @ 5.5 MW = 11 MW = 11 MW x 8,760 hours = 96,360 MWe-hrs). The two combustion turbines are identical, each is approximately 60.5 MM Btu/hr and each is equipped with a heat recovery steam generator (HRSG). Emissions from the two turbines co-exhaust with the boilers through the same single emission point identified as Emission Point 00001.

The two 5.5 MW gas turbines (Emission Sources TURB1 & TURB2), and their two corresponding 70 MM Btu/hr duct burners (Emission Controls DUCT1 & DUCT2; respectively) for cogeneration with the two turbines began operating December 2010 (though they were allowed to operate beginning June 30, 2010).

As per 6 NYCRR 227-1.4, COMS is required on combustion sources exceeding 250 MMBtu/hr heat input, excluding gas turbines. Heat input at Emission Point 00001 from the mid-size boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) @ 65 MMBtu/hr each total 195 MMBtu/hr (< 250 MMBtu/hr), therefore the existing continuous opacity monitoring system (COMS) unit will voluntarily remain on the stack of Emission Point 00001 will continue to be used for the opacity compliance of Emission Point 00001 as per regulation 6 NYCRR 227-1.3 (a).

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Emission unit 100000 is associated with the following emission points (EP):
00001

Process: 001 is located at sub-basement, Building 251 - Process 001 is the combustion of natural gas in three existing boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) in Emission Unit 1-0000. Boilers 0BLRA, 0BLRB and 0BLRC are 65 MM Btu/hr each. These three boilers combust natural gas (Process 001) and # 2 fuel oil (Process 006).

Emissions from the three boilers exhaust through a single emission point, a nine foot diameter stack on the roof of 251 Mercer Street, identified as Emission Point 00001. The same emission point exhausts emissions from the two turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (Emission Controls DUCT1 & DUCT2; respectively).

Process: 004 is located at sub-basement, Building 251 - Process 004 consists of the combustion of natural gas in the two 5.5 MW turbines (Emission Sources TURB1 & TURB2) with or without their corresponding two duct burners (Emission Controls DUCT1 & DUCT2; respectively) in Emission Unit 1-00000. The duct burners combust only natural gas. When the two turbines are not operating due to emergency or maintenance, the duct burners do not operate and supplemental hot water is provided by the boilers. The duct burners operate only when the turbines are operating. The duct burners (Emission Controls DUCT1 & DUCT2) do not operate independent of the turbines (Emission Sources TURB1 & TURB2).

The two combustion turbines (Emission Sources TURB1 & TURB2) are identical, and each is approximately 60.5 MM Btu/hr.

Process: 005 is located at sub-basement, Building 251 - Process 005 consists of the combustion of # 2 fuel oil (distillate oil) in the two 5.5 MW turbines (Emission Sources TURB1 & TURB2) with or without their corresponding two duct burners (Emission Controls DUCT1 & DUCT2; respectively) in Emission Unit 1-00000. The duct burners combust only natural gas. When the two turbines are not operating due to emergency or maintenance, the duct burners do not operate and supplemental hot water is provided by the boilers.

The two combustion turbines (Emission Sources TURB1 & TURB2) are identical, and each is approximately 60.5 MM Btu/hr. The duct burners (Emission Controls DUCT1 & DUCT2) operate only when the turbines are operating; the duct burners do not operate independent of the turbines (Emission Sources TURB1 & TURB2).

Emissions from the two turbines/duct burners will be exhausted through a single emission point, identified as Emission Point 00001 (the same emission point as the three boilers).

Process: 006 is located at Sub-basement, Building 251 - Process 006 is the firing of # 2 distillate fuel oil in the three mid-size boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) in Emission Unit 1-0000 after the conversion from # 6 residual fuel oil to # 2 distillate fuel oil (Process 006) beginning 7/1/2014. Process

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002 (#6 residual fuel oil) will no longer be used at the facility (ended on 6/30/2014).

The boilers are dual fuel and will continue to burn natural gas (Process 001) as the predominant fuel and Process 006 (#2 ultra low sulfur distillate fuel oil) as back-up fuel.

Changes to the boilers include new oil guns, new fuel oil trains, new steam automatization trains and compressed air atomization trains. The existing burners will remain in place.

Additional efficiency and safety upgrades include an oil purifier centrifuge for the oil tanks, extended fire protection in the oil pump room and full burning capacity for optimal steam and air atomization.

Emissions from the three boilers exhaust through a single emission point, a nine foot diameter stack on the roof of 251 Mercer Street, identified as Emission Point 00001. The same emission point will be used to exhaust emissions from the two new turbines (Emission Sources TURB1 & TURB2) and their corresponding duct burners (Emission Controls DUCT1 & DUCT2; respectively).

Emission unit 200000 - Emission Unit 2-00000, located in the Tisch Hall sub-basement of 40 West 4th Street, will contain the two new reciprocating internal combustion engines (Emission Sources ENG08 & ENG09) which will be installed and on line during 2020, in the space previously occupied by the seven diesel-fired Caterpillar D399 engines that were permanently removed and had NOx limit of 13.9 tons per year. These two new engines will utilize the same existing stack (Emission Point 00002). The existing Continuous Opacity Monitoring System (COMS) at Emission point 00002 will remain in use by these two new engines.

One engine is defined as Emission Source ENG08, stationary spark ignited 2.6 MW GE-Jenbacher / JSM-616 natural gas fired (Process JEN) lean burn engine with approved emission control technology add-on selective catalytic reduction (SCR) for NOx (Emission Control SCR08) and catalytic oxidation (Emission Control OXC08) for CO and VOC.

The other engine is defined as Emission Source ENG09, Caterpillar / 3516C, a 2.5 MW (3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine for black start and utility demand programs with "built-in" approved emission control technology catalyst-based emissions controls also using SCR for NOx, and oxidation catalysis for CO and VOC (Emission Controls SCR09 and OXC09; respectively).

NOx emissions for the combined ENG08 and ENG09 are netted out at 11.83 tons per year: 10.67 tpy of NOx for the GE-Jenbacher engine (Emission Source ENG08) firing natural gas (Process JEN) at 8760 hrs/yr (based on an arbitrary NOx emission factor for the JEN of 0.3 g/bhp-hr), and 1.16 tpy (4.63 lb/hr x 500 hours) for the Caterpillar / D3516C engine (Emission Source ENG09) firing distillate oil and capped at 500 hrs/yr. The Net Emission Increase (NEI):

NEI = NOx emissions from GE-Jenbacher engine + NOx emissions from Caterpillar / D3516C engine =

NEI = NOx PTE for JEN + NOx PTE for CAT =
10.67 + 1.16 = 11.83 tpy or 23,660 lbs/yr of NOx

This facility is an existing major facility in a non-attainment area within the Ozone Transport Region according to 6 NYCRR 231-6.

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Process: CAT is located at Sub-basement, Building 40 - Process CAT is the burning of ultra-low-sulfur distillate fuel oil for firing the 2.5 MW Caterpillar D3516C Tier 4 compression ignition reciprocating internal combustion engine (Emission Source ENG09) for black start and utility demand programs, with "built-in" catalyst-based emissions control (Emission Controls OXC09 and SCR09) in Emission Unit 2-00000. The emissions exhaust through a stack identified as Emission Point 00002. The hours of operation will be capped at 500 per year.

Process: JEN is located at Sub-basement, Building 40 - Process JEN is the burning of utility-provided natural gas for firing the 2.6 MW GE-Jenbacher lean burn spark-ignited reciprocating internal combustion engine (Emission Source GEN08) with add-on selective catalytic reduction (Emission Control SCR08) for NOx and catalytic oxidation for CO and VOC (Emission Control OXC08) in Emission Unit 2-00000. The emissions exhaust through a stack identified as Emission Point 00002.

Title V/Major Source Status

NYU CENTRAL PLANT is subject to Title V requirements. This determination is based on the following information:

The Central Plant at New York University is a major facility that is subject to Title V requirements because the potential emissions of oxides of nitrogen and carbon monoxide are greater than the major source thresholds (25 tons/year for oxides of nitrogen and 100 tons/year for carbon monoxide).

Program Applicability

The following chart summarizes the applicability of NYU CENTRAL PLANT with regards to the principal air pollution regulatory programs:

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

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RACT	YES
SIP	YES

NOTES:

PSD Prevention of Significant Deterioration (40 CFR 52, 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 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

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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

8221	COLLEGES AND UNIVERSITIES, NEC
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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

1-02-006-02	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-03-005-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL 10-100MMBTU/HR **
2-01-001-01	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - DISTILLATE OIL (DIESEL) Turbine
2-01-002-01	INTERNAL COMBUSTION ENGINES - ELECTRIC GENERATION ELECTRIC UTILITY INTERNAL COMBUSTION ENGINE - NATURAL GAS Turbine
2-03-001-01	INTERNAL COMBUSTION ENGINES - COMMERCIAL/INSTITUTIONAL COMMERCIAL/INSTITUTIONAL IC ENGINE - DISTILLATE OIL (DIESEL) Reciprocating
2-03-002-01	INTERNAL COMBUSTION ENGINES - COMMERCIAL/INSTITUTIONAL COMMERCIAL/INSTITUTIONAL IC ENGINE - NATURAL GAS Reciprocating

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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
0NY750-00-0	CARBON DIOXIDE EQUIVALENTS	293616000		148694000	
000630-08-0	CARBON MONOXIDE	258000		102100	
0NY210-00-0	OXIDES OF NITROGEN	317000		70344	
0NY075-00-0	PARTICULATES	25440		25440	
0NY075-02-5	PM 2.5	16740		7646	
0NY075-00-5	PM-10	16740		7646	
007446-09-5	SULFUR DIOXIDE	66580		625	
0NY100-00-0	TOTAL HAP	50000		4999	
0NY998-00-0	VOC	18600		3375	

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.

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- 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 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

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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 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

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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.

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

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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.

Regulatory Analysis

Location Facility/EU/EP/Process/ES	Regulation	Condition	Short Description
-- FACILITY	ECL 19-0301	91	Powers and Duties of the Department with respect to air pollution control
1- 00000/00001/004/DUCT1	40CFR 60-A.4	65	General provisions - Address
1- 00000/00001/005/TURB2	40CFR 60-A.7 (a)	86	Notification and Recordkeeping
1- 00000/00001/004/TURB1	40CFR 60-A.7 (b)	70	Notification and Recordkeeping
1- 00000/00001/004/TURB1	40CFR 60-A.7 (f)	71	Notification and Recordkeeping
1- 00000/00001/004/TURB1	40CFR 60-A.8 (b)	72	Performance Tests
1- 00000/00001/004/TURB1	40CFR 60-A.8 (d)	73	Performance Tests
1- 00000/00001/004/TURB1	40CFR 60-A.8 (e)	74	Performance Tests
1- 00000/00001/004/TURB1	40CFR 60-A.8 (f)	75	Performance Tests
1- 00000/00001/004/TURB1	40CFR 60-A.9	76	General provisions - Availability of information
FACILITY	40CFR 60-IIII	41	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines
FACILITY	40CFR 60-IIII.4211 (a)	42	Stationary Compression Ignition Engines - Compliance Requirements
FACILITY	40CFR 60-IIII.4211 (g)	43, 44, 45, 46	Changes to emissions related settings
FACILITY	40CFR 60-JJJJ	47	Standards of Performance for Stationary Spark Ignition Internal Combustion Engines

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FACILITY	40CFR 60- JJJJ.4243 (b) (2)	48, 49, 50, 51, 52	SI ICE - Maintenance Plan and testing
FACILITY	40CFR 60-KKKK.4305	53	Stationary Combustion Turbine NSPS - applicability
1- 00000/00001/004/DUCT1	40CFR 60-KKKK.4325	66	Stationary Combustion Turbine NSPS - NOx emission limits when firing multiple fuels
1- 00000/00001/004/DUCT2	40CFR 60-KKKK.4325	68	Stationary Combustion Turbine NSPS - NOx emission limits when firing multiple fuels
1- 00000/00001/004/TURB1	40CFR 60-KKKK.4325	77	Stationary Combustion Turbine NSPS - NOx emission limits when firing multiple fuels
1- 00000/00001/004/TURB2	40CFR 60-KKKK.4325	80	Stationary Combustion Turbine NSPS - NOx emission limits when firing multiple fuels
1- 00000/00001/005/TURB1	40CFR 60-KKKK.4325	84	Stationary Combustion Turbine NSPS - NOx emission limits when firing multiple fuels
1- 00000/00001/005/TURB2	40CFR 60-KKKK.4325	87	Stationary Combustion Turbine NSPS - NOx emission limits when firing multiple fuels
FACILITY	40CFR 60-KKKK.4340	54, 55	Stationary Combustion Turbine NSPS - demonstrating compliance with NOx standard without using using water or steam injection
1- 00000/00001/004/TURB1	40CFR 60-KKKK.4340 (a)	78	Stationary Combustion Turbine NSPS - Continuous compliance with NOx limit
1- 00000/00001/004/TURB2	40CFR 60-KKKK.4340 (a)	81	Stationary Combustion Turbine NSPS - Continuous compliance with NOx limit
FACILITY	40CFR 60-KKKK.4365 (a)	56	Stationary Combustion Turbine NSPS - Exemption from monitoring total sulfur content of fuel
FACILITY	40CFR 63-JJJJJJ	57	National Emission Standards for Hazardous Air Pollutants for Industrial, Commercial, and Institutional Boilers Area Sources
FACILITY	40CFR 68	20	Chemical accident prevention provisions
FACILITY	40CFR 80-I.510 (b)	58	Motor vehicle diesel fuel: non road, locomotive and marine diesel fuel
FACILITY	40CFR 82-F	21	Protection of

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FACILITY	6NYCRR 200.6	1	Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.7	22	Acceptable ambient air quality.
FACILITY	6NYCRR 201-1.4	92	Maintenance of equipment.
FACILITY	6NYCRR 201-1.7	12	Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.8	13	Recycling and Salvage
FACILITY	6NYCRR 201-3.2 (a)	14	Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.3 (a)	15	Exempt Activities - Proof of eligibility
FACILITY	6NYCRR 201-6	23, 59, 60	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6.4 (a) (4)	16	Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (7)	2	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (8)	17	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (c)	3	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c) (2)	4	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201- 6.4 (c) (3) (ii)	5	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201-6.4 (d) (4)	24	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (e)	6, 7, 8	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (f) (6)	18	Compliance Certification
FACILITY	6NYCRR 201-6.4 (g)	25	Off Permit Changes
FACILITY	6NYCRR 201-6.5 (a)	93	Permit Shield
FACILITY	6NYCRR 202-1.1	19	State Enforceable Requirements
FACILITY	6NYCRR 202-2.1	9	Required emissions tests.
FACILITY	6NYCRR 202-2.5	10	Emission Statements - Applicability
FACILITY	6NYCRR 211.1	94	Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.2	26	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 215.2	11	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 225-1.2 (h)	27	Open Fires - Prohibitions
			Sulfur-in-Fuel Limitations

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FACILITY	6NYCRR 225-1.6	28	Reports, Sampling, and Analysis
FACILITY	6NYCRR 227.2(b)(1)	34, 35, 36	Particulate emissions.
1-00000/00001/001/OBLRA	6NYCRR 227-1.3	63	Smoke Emission Limitations.
1-00000/00001/005/TURB1	6NYCRR 227-1.3	82	Smoke Emission Limitations.
2-00000/00002/CAT/ENG09	6NYCRR 227-1.3	90	Smoke Emission Limitations.
1-00000/00001	6NYCRR 227-1.3(a)	61	Smoke Emission Limitations.
1-00000/00001/006/OBLRA	6NYCRR 227-1.3(a)	88	Smoke Emission Limitations.
1-00000/00001	6NYCRR 227-1.4(a)	95	Stack Monitoring. (see narrative)
FACILITY	6NYCRR 227-1.4(b)	29	Stack Monitoring
1-00000/00001	6NYCRR 227-1.4(b)	62	Stack Monitoring
2-00000/00002	6NYCRR 227-1.4(b)	89	Stack Monitoring
1-00000/00001/004/DUCT1	6NYCRR 227-2.4(e)(2)	64	Combined cycle combustion turbines.
1-00000/00001/004/DUCT2	6NYCRR 227-2.4(e)(2)	67	Combined cycle combustion turbines.
1-00000/00001/004/TURB1	6NYCRR 227-2.4(e)(2)	69	Combined cycle combustion turbines.
1-00000/00001/004/TURB2	6NYCRR 227-2.4(e)(2)	79	Combined cycle combustion turbines.
1-00000/00001/005/TURB1	6NYCRR 227-2.4(e)(2)	83	Combined cycle combustion turbines.
1-00000/00001/005/TURB2	6NYCRR 227-2.4(e)(2)	85	Combined cycle combustion turbines.
FACILITY	6NYCRR 227-2.4(f)(1)	30	Emission limit for natural gas fired engines.
FACILITY	6NYCRR 227-2.4(f)(3)	31	Emission limit for distillate oil fired engines.
FACILITY	6NYCRR 227-2.5(a)	32, 33	Fuel switching option.
FACILITY	6NYCRR 231-6.2	37, 38, 39, 40	Netting

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 201-6.4 (f) (6)

This condition allows changes to be made at the facility, without modifying the permit, provided the changes do not cause an emission limit contained in this permit to be exceeded. The owner or operator of the facility must notify the Department of the change. It is applicable to all Title V permits which may be subject to an off permit change.

6 NYCRR 201-6.4 (g)

Permit Exclusion Provisions - specifies those actions, such as administrative orders, suits, claims for natural resource damages, etc that are not affected by the federally enforceable portion of the permit, unless they are specifically addressed by it.

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 202-2.1

Requires that emission statements shall be submitted on or before April 15th each year for emissions of the previous calENdar year.

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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

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, NYU CENTRAL PLANT has been determined to be subject to the following regulations:

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 60.4211 (a)

This regulation states that the owner or operator must comply with the emission standards specified in 40 CFR 60 Subpart IIII and must operate and maintain the stationary compression ignition internal combustion engine and control device according to the manufacturer's written instructions.

40 CFR 60.4211 (g)

This regulation specifies that any changes made to emissions related settings, not in accordance with manufacturer's requirements, must be tested to ensure that the unit meets the emissions limits.

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40 CFR 60.4243 (b) (2) (ii)

This regulation requires the owner or operator of a stationary SI internal combustion engine greater than 500 HP to keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

40 CFR 60.4305

This regulation is an NSPS regulation for Stationary Combustion Turbines and it explains the applicability of this subpart to stationary combustion turbines as:

(a) Owners or operators of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MM Btu) per hour, based on the higher heating value of the fuel, which commenced construction, modification, or reconstruction after February 18, 2005, the turbine is subject to this subpart. Only heat input to the combustion turbine should be included when determining whether or not this subpart is applicable to the turbine. Any additional heat input to associated heat recovery steam generators (HRSG) or duct burners should not be included when determining your peak heat input. However, this subpart does apply to emissions from any associated HRSG and duct burners.

(b) Stationary combustion turbines regulated under this subpart are exempt from the requirements of subpart GG of this part. Heat recovery steam generators and duct burners regulated under this subpart are exempted from the requirements of subparts Da, Db, and Dc of this part.

40 CFR 60.4325

This regulation is an NSPS regulation for Stationary Combustion Turbines and it specifies the NO_x emission limits specified in Table 1 to this subpart. If the turbine's total heat input is greater than or equal to 50 percent natural gas, then the owner or operator must meet the corresponding limit for a natural gas-fired turbine when the turbine is burning that fuel. Similarly, when the turbine's total heat input is greater than 50 percent distillate oil and fuels other than natural gas, then the owner or operator must meet the corresponding limit for distillate oil and fuels other than natural gas for the duration of the time that the turbine burns that particular fuel.

40 CFR 60.4340

This regulation requires the facility to perform an annual compliance test on combustion turbines that do not use water or steam injection to control the emissions of oxides of nitrogen (NO_x). Alternatively, the facility may use a continuous emissions monitor to determine the emissions of NO_x.

40 CFR 60.4340 (a)

This condition specifies NO_x annual testing requirement for turbines.

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40 CFR 60.4365 (a)

This section provides an exemption from monitoring total sulfur content of the fuel used by a facility.

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 (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.

40 CFR 60.8 (b)

This regulation contains the requirements for Performance test methods and procedures, to be used by the owner or operator, of the affected facility.

40 CFR 60.8 (d)

This regulation contains the requirements for advance notification of Performance (stack) testing.

40 CFR 60.8 (e)

This regulation requires the facility to provide appropriate sampling ports, safe platforms and utilities as necessary for Performance (stack) testing.

40 CFR 60.8 (f)

This regulation requires that Performance (stack) tests consist of three runs unless otherwise specified. The rule also designates the allowable averaging methods for the analysis of the results.

40 CFR 60.9

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This rule citation allows the public access to any information submitted to the EPA Administrator (or state contact), in conjunction with a project subject to this section of the regulation.

40 CFR 80.510 (b)

This regulation is for motor vehicle dieselfuel: non-road, locomotive and marine diesel fuel.

This regulation requires that beginning June 1, 2010: Except as otherwise specifically provided in 40 CFR 80 SubpartI, all nonroad and locomotive marine diesel fuel is subject to the following per-gallon standards for sulfur content:

15 ppm maximum for NR diesel fuel.

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40 CFR Part 60, Subpart IIII

This regulation defines performance standards for compression ignition stationary reciprocating internal combustion engines.

40 CFR Part 60, Subpart JJJJ

This regulation defines performance standards for stationary spark ignition internal combustion engines.

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 201-6.5 (a)

This section identifies state enforceable requirements for Title V permits.

6 NYCRR 211.1

This regulation requires that 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.

6 NYCRR 225-1.2 (h)

Sulfur-in-fuel limitation for the firing of distillate oil on or after July 1, 2016.

6 NYCRR 225-1.6

This section establishes the requirements for reporting, sampling, and analyzing fuel by subject facilities.

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6 NYCRR 227.2 (b) (1)

This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. The rule establishes a particulate limit of 0.10 lbs/mmBtu based on a 2 hour average emission for any oil fired stationary combustion installation.

6 NYCRR 227-1.3

This regulation requires a limitation and compliance monitoring for opacity from a stationary combustion installation.

6 NYCRR 227-1.3 (a)

This regulation prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

6 NYCRR 227-1.4 (a)

Subdivisions (a) and (f) of this section (227-1.4) have not been approved by EPA and have not been included in the NYS SIP.

6 NYCRR 227-1.4 (b)

This regulation requires the specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

6 NYCRR 227-2.4 (e) (2)

Presumptive NOx RACT emission limits for combined cycle combustion turbines.

6 NYCRR 227-2.4 (f) (1)

Presumptive NOx RACT emission limit for natural gas fired stationary internal combustion engines.

6 NYCRR 227-2.4 (f) (3)

Presumptive NOx RACT emission limit for distillate oil fired stationary internal combustion engines.

6 NYCRR 227-2.5 (a)

Fuel switching NOx RACT compliance option.

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6 NYCRR 231-6.2

This section establishes the requirements for performing a netting analyses.

Non Applicability Analysis

List of non-applicable rules and regulations:

Location Facility/EU/EP/Process/ES	Regulation	Short Description
FACILITY	40 CFR 60.4330	Stationary Combustion Turbine NSPS - SO2 emission limits
<p>Reason: The condition for 40 CFR 60 KKKK 4330 is an NSPS regulation for Stationary Combustion Turbines (Emission Sources TURB 1 & TURB2) operating on #2 distillate fuel oil (Process 005) and it specifies the sulfur dioxide emission limit of 0.060 lb SO2/MMBtu heat input. This is equivalent to 500 ppm or 0.05 % sulfur by weight.</p> <p>Since the New York State Regulation 6 NYCRR 225-1.2 (h) with a sulfur content limit of 15 ppm (0.0015 % by weight) in the #2 fuel oil supersedes the Federal Regulation 40 CFR 60.4330, NSPS Subpart KKKK - Stationary Combustion Turbine NSPS - SO2 emission limits, which is equivalent to 500 ppm or 0.05% by weight sulfur content limit.</p> <p>Therefore; Regulation 40 CFR 60.4330, NSPS Subpart KKKK is not applicable to the #2 fuel oil (Process 005) combusting in the two combustion turbines (Emission Sources TURB1 & TURB2).</p>		
FACILITY	40 CFR 60.4365 (a)	Stationary Combustion Turbine NSPS - Exemption from monitoring total sulfur content of fuel
2-00000/00002/CAT/ENG09	40 CFR 63.6585	Reciprocating Internal Combustion Engine (RICE) NESHAP -

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Applicability

Reason: NESHAPs for Stationary RICE at area sources of HAPs for new or reconstructed Reciprocating Internal Combustion Engine (RICE) is met by meeting the requirements of 40 CFR Part 60 Subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.

Therefore, 40 CFR 63.6585, Subpart ZZZZ is not applicable to the 2.5 MW Caterpillar D3516C Tier 4 compression ignition (Emission Source ENG09) ultra low-sulfur distillate fuel oil (Process CAT) fired Tier 4 compression ignition reciprocating internal combustion engine (RICE).

2-00000/00002/JEN/ENG08 40 CFR 63.6585 Reciprocating Internal Combustion Engine (RICE) NESHAP - Applicability

Reason: NESHAPs for Stationary RICE at area sources of HAPs for new or reconstructed Reciprocating Internal Combustion Engine (RICE) is met by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

Therefore, 40 CFR 63.6585, Subpart ZZZZ is not applicable to the 2.6 MW GE-Jenbacher lean burn spark-ignited (Emission Source ENG08) natural gas-fired (Process JEN) lean burn reciprocating internal combustion engine (RICE).

2-00000/00002/CAT/ENG09 40 CFR 63.6590 (c) Reciprocating Internal Combustion Engine (RICE) NESHAP - Stationary RICE subject to Regulations under 40 CFR Part 60

Reason: NESHAPs for Stationary RICE at area sources of HAPs for new or reconstructed Reciprocating Internal Combustion Engine (RICE) is met by meeting the requirements of 40 CFR Part 60 Subpart IIII, for compression ignition engines. No further requirements apply for such engines under this part.

Therefore, 40 CFR 63.6590 (c), Subpart ZZZZ is not applicable to the 2.5 MW Caterpillar D3516C Tier 4 compression ignition (Emission Source ENG09) ultra low-sulfur distillate fuel oil (Process CAT) fired Tier 4 compression ignition reciprocating internal combustion engine (RICE).

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2-00000/00002/JEN/ENG08 40 CFR 63.6590 (c) Reciprocating Internal Combustion Engine (RICE) NESHAP - Stationary RICE subject to Regulations under 40 CFR Part 60

Reason: NESHAPs for Stationary RICE at area sources of HAPs for new or reconstructed Reciprocating Internal Combustion Engine (RICE) is met by meeting the requirements of 40 CFR Part 60 Subpart JJJJ, for spark ignition engines. No further requirements apply for such engines under this part.

Therefore, 40 CFR 63.6590 (c), Subpart ZZZZ is not applicable to the 2.6 MW GE-Jenbacher lean burn spark-ignited (Emission Source ENG08) natural gas-fired (Process JEN) lean burn reciprocating internal combustion engine (RICE).

NOTE: Non-applicability determinations are cited as a permit condition under 6 NYCRR Part 201-6.4(g). This information is optional and provided only if the applicant is seeking to obtain formal confirmation, within an issued Title V permit, that specified activities are not subject to the listed federal applicable or state only requirement. The applicant is seeking to obtain verification that a requirement does not apply for the stated reason(s) and the Department has agreed to include the non-applicability determination in the issued Title V permit which in turn provides a shield against any potential enforcement action.

**Compliance Certification
Summary of monitoring activities at NYU CENTRAL PLANT:**

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

FACILITY	42	record keeping/maintenance procedures
FACILITY	43	intermittent emission testing
FACILITY	44	intermittent emission testing
FACILITY	45	intermittent emission testing
FACILITY	46	intermittent emission testing
FACILITY	48	intermittent emission testing
FACILITY	49	record keeping/maintenance procedures
FACILITY	50	intermittent emission testing
FACILITY	51	intermittent emission testing
FACILITY	52	intermittent emission testing
FACILITY	53	record keeping/maintenance procedures
1-00000/00001/004/DUCT1	66	intermittent emission testing
1-00000/00001/004/DUCT2	68	intermittent emission testing
1-00000/00001/004/TURB1	77	intermittent emission testing

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1-00000/00001/004/TURB2	80	intermittent emission testing
1-00000/00001/005/TURB1	84	intermittent emission testing
1-00000/00001/005/TURB2	87	intermittent emission testing
FACILITY	54	intermittent emission testing
FACILITY	55	intermittent emission testing
1-00000/00001/004/TURB1	78	record keeping/maintenance procedures
1-00000/00001/004/TURB2	81	record keeping/maintenance procedures
FACILITY	56	work practice involving specific operations
FACILITY	58	work practice involving specific operations
FACILITY	22	record keeping/maintenance procedures
FACILITY	5	record keeping/maintenance procedures
FACILITY	6	record keeping/maintenance procedures
FACILITY	7	monitoring of process or control device parameters as surrogate
FACILITY	8	monitoring of process or control device parameters as surrogate
FACILITY	9	record keeping/maintenance procedures
FACILITY	27	work practice involving specific operations
FACILITY	28	record keeping/maintenance procedures
FACILITY	34	intermittent emission testing
FACILITY	35	intermittent emission testing
FACILITY	36	intermittent emission testing
1-00000/00001/001/OBLRA	63	record keeping/maintenance procedures
1-00000/00001/005/TURB1	82	record keeping/maintenance procedures
2-00000/00002/CAT/ENG09	90	record keeping/maintenance procedures
1-00000/00001	61	monitoring of process or control device parameters as surrogate
1-00000/00001/006/OBLRA	88	monitoring of process or control device parameters as surrogate
1-00000/00001	95	monitoring of process or control device parameters as surrogate
FACILITY	29	record keeping/maintenance procedures
1-00000/00001	62	record keeping/maintenance procedures
2-00000/00002	89	record keeping/maintenance procedures
1-00000/00001/004/DUCT1	64	intermittent emission testing
1-00000/00001/004/DUCT2	67	intermittent emission testing
1-00000/00001/004/TURB1	69	intermittent emission testing
1-00000/00001/004/TURB2	79	intermittent emission testing
1-00000/00001/005/TURB1	83	intermittent emission testing
1-00000/00001/005/TURB2	85	intermittent emission testing
FACILITY	30	intermittent emission testing
FACILITY	31	intermittent emission testing
FACILITY	32	record keeping/maintenance procedures
FACILITY	33	intermittent emission testing
FACILITY	37	monitoring of process or control device parameters as surrogate
FACILITY	38	monitoring of process or control device parameters as surrogate
FACILITY	39	monitoring of process or control device parameters as surrogate
FACILITY	40	monitoring of process or control device parameters as surrogate

Basis for Monitoring

The NYU Central Plant is subject to the requirements of Title V. The facility is required, under the provisions of 6 NYCRR Subpart 201-6, to submit semiannual compliance reports and an annual Compliance Certification. This facility is required to comply with the following monitoring conditions:

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Condition # 7 for 6 NYCRR 201-6.4 (e): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen.

The hours of operation for the 2.5 MW Caterpillar / 3516C (Emission Source ENG09) ULSD fuel oil-fired (Process CAT) Tier 4 compression ignition engine for black start and utility demand programs, with "built-in" catalyst-based emissions controls (Emission Controls SCR09 and OXC09) is defined as Emission Source ENG09, and is capped at 500 hours per year.

Condition # 8 for 6 NYCRR 201-6.4 (e): This is a facility-wide condition. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen. The facility's NO_x emissions will not exceed 158.5 tons per year. The facility's emission sources include the turbines and their duct burners, the boilers, the Jenbacher engine and the Caterpillar engine.

Condition # 27 for 6 NYCRR 225-1.2 (h): This is a facility-wide condition. This condition is for Work Practice Involving Specific Operations for Sulfur Dioxide for the sulfur content limit of 0.0015 percent by weight. The distillate fuel oil (#2 heating oil) firing is limited to 0.0015 percent sulfur by weight on or after July 1, 2016. Compliance with this limit will be based on vendor certifications.

Condition # 30 for 6 NYCRR 227-2.4 (f) (1): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: JEN and Emission Sources/Controls: ENG08, OXC08/SCR08 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 2.5 MW GE-Jenbacher / JSM-616 lean burn spark ignited engine Emission Source ENG08 (equivalent to 2649 KW or to 4.55 MMBtu/hr) natural gas fired spark-ignited (Process JEN) equipped with selective catalytic reduction (Emission Control SCR08) for NO_x and oxidation catalysis (Emission Control OXC08) for CO and VOC.

Stack testing will be required in order to demonstrate compliance with the 1.5 grams per brake horsepower-hour (g/bhp-hr) NO_x emission limit. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

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Condition # 31 for 6 NYCRR 227-2.4 (f) (3): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 2.5 MW Caterpillar / 3516C (equivalent to 2500 KW or to 3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine defined as Emission Source ENG09, for black start and utility demand programs with "built-in" catalyst-based emissions control (Emission Control OXC09) and selective catalytic reduction (Emission Control SCR09).

This condition is for the presumptive NO_x RACT emission limit for distillate oil fired stationary internal combustion engines. This condition is to ensure that the engines run at optimum conditions and stays in compliance with the NO_x RACT emission limit by performing periodic maintenance in accordance with the manufacturer's specifications.

Stack testing will be required in order to demonstrate compliance with the 0.59 grams per brake horsepower-hour (g/bhp-hr) NO_x RACT emission limit in the severe ozone non-attainment area. The owner or operator must submit a stack test protocol to the Department for approval prior to testing. The owner or operator shall submit stack test results, to the Department for approval, within 60 days of stack test completion.

Condition # 33 for 6 NYCRR 227-2.5 (a): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Processes: 001 & 006 and Emission Sources: 0BLRA, 0BLRB & 0BLRC for Intermittent Emission Testing for Oxides of Nitrogen.

This condition is for NO_x RACT presumptive limit effective 7/1/14 for mid-size boilers. A mid-size boiler is a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour.

Due to the Fuel Switching Compliance Option [(6 NYCRR 227-2.5 (a))], the three mid-size boilers that recently have been firing # 6 fuel oil/gas will require to meet the 0.20 lbs/MM Btu upon switching to # 2 fuel oil/gas and not the 0.08 lbs/MM Btu which is for the # 2 fuel oil.

Condition # 34 for 6 NYCRR 227.2 (b) (1): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Intermittent Emission Testing for Particulates.

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This condition applies to the 2.5 MW Caterpillar / 3516C (equivalent to 2500 KW or to 3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine defined as Emission Source ENG09, for black start and utility demand programs with "built-in" catalyst-based emissions control (Emission Control OXC09) and selective catalytic reduction (Emission Control SCR09).

This condition is from the 1972 version of Part 227 and still remains as part of New York's SIP. The condition establishes a particulate limit of 0.10 lbs/MMBtus based on a 2 hour average emission for any oil fired stationary combustion installation.

Condition # 35 for 6 NYCRR 227.2 (b) (1): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 006 and Emission Sources: 0BLRA, 0BLRB & 0BLRC for Intermittent Emission Testing for Particulates.

This condition is from the 1972 version of Part 227 and still remains as part of New York's SIP. The condition establishes a particulate limit of 0.10 lbs/MMBtus based on a 2 hour average emission for any oil fired stationary combustion installation.

Condition # 36 for 6 NYCRR 227.2 (b) (1): This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 005 and Emission Sources: TURB1, TURB2, DUCT1 & DUCT2 for Intermittent Emission Testing for Particulates. This is a condition that applies to the two combustion turbines (Emission Sources TURB1 & TURB2) with their associated duct burners (Emission Controls DUCT1 & DUCT2). This condition is Intermittent Emission Testing for Particulates.

This condition is from the 1972 version of Part 227 and still remains as part of New York's SIP. The condition establishes a particulate limit of 0.10 lbs/MMBtus based on a 2 hour average emission for any oil fired stationary combustion installation.

Condition # 37 for 6 NYCRR 231-6.2: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Processes: 004 & 005 and Emission Sources: DUCT1, DUCT2, TURB1 & TURB2 for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen.

The total combined NO_x emissions from the two turbines (Emission Sources TURB1 & TURB2) and their associated duct burners (Emission Controls DUCT1 & DUCT2; respectively) burning both natural gas (Process 004) and # 2 fuel oil (Process 005) are limited to an overall combined NO_x emissions cap of 104.23 tpy. Each turbine has a maximum of 60.5 MM Btu/hr.

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This condition establishes the requirements for performing a netting analysis.

Potential to emit (PTE) for each of the two combustion turbines is based on the equivalent of combusting 9 months (6,570 hrs/yr) of natural gas, and 3 months of # 2 fuel oil (2,190 hrs/yr) or a ratio of 3:1 for natural gas to # 2 fuel oil. But, the facility does not have limitations based on hours of operation, the facility has limited emissions based on the calculated ton-per-year voluntary PTE.

Since both turbines combined have a NO_x PTE based on operating on #2 fuel oil for 3 months and on natural gas for 9 months, then:

PTE (both turbines, #2 fuel oil only): 130.66 tpy
PTE (both turbines, natural gas only): 32.34 tpy

Thus, PTE NO_x for both turbines combined = $0.25 (130.66) + 0.75 (32.34) = 32.67 + 24.26 = 56.93$ tpy

Both HRSG duct burners (Emission Sources DUCT1 & DUCT2) combined will have a NO_x PTE based on operating on natural gas for 12 months. Each duct burner has a maximum heat input of 70 MM Btu/hr. Since the HRSGs duct burners will never operate by themselves without the turbines, then:

PTE (both HRSG duct burners operating only on natural gas) : 47.30 tpy NO_x

Thus, both turbines (Emission Sources TURB1 & TURB2) and their corresponding HRSG duct burners (Emission Controls DUCT1 & DUCT2) will have a NO_x PTE = $56.93 + 47.30 = 104.23$ tpy

Condition # 38 for 6 NYCRR 231-6.2: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Processes: 004 & 005 and Emission Sources: TURB1 & TURB2 for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen. The total combined NO_x emissions from the two turbines (Emission Sources TURB1 & TURB2) burning both natural gas (Process 004) and # 2 fuel oil (Process 005) are limited to an overall combined NO_x emissions cap of 56.93 tpy. Each turbine has a maximum of 60.5 MM Btu/hr. The facility's NO_x emissions will not exceed 158.5 tpy.

This condition establishes the requirements for performing a netting analysis.

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Potential to emit (PTE) for each of the two combustion turbines is based on the equivalent of combusting 9 months (6,570 hrs/yr) of natural gas, and 3 months of # 2 fuel oil (2,190 hrs/yr) or a ratio of 3:1 for natural gas to # 2 fuel oil. But, the facility does not have limitations based on hours of operation, the facility has limited the emissions based on the calculated ton-per-year voluntary PTE.

Since both turbines combined have a NO_x PTE based on operating on #2 fuel oil for 3 months and on natural gas for 9 months, then:

PTE (both turbines, #2 fuel oil only): 130.66 tpy

PTE (both turbines, natural gas only): 32.34 tpy

Thus, PTE NO_x for both turbines combined = $0.25 (130.66) + 0.75 (32.34) = 32.67 + 24.26 = 56.93$ tpy

Condition # 39 for 6 NYCRR 231-6.2: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Processes: 001 & 006 and Emission Sources: 0BLRA, 0BLRB and 0BLRC for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen.

The three boilers @ 65 MM Btu/hr (Emission Sources 0BLRA, 0BLRB and 0BLRC) have an overall emissions cap for all parameters equivalent to the PTE emissions of two of the boilers, which for NO_x is 40.4 tons/year. The three boilers may be used singularly or in any combination at different times. The cap applies to the overall combination of both fuels (natural gas & #2 fuel oil) and is not prorated for any single fuel.

Condition # 43 for 40 CFR 60.4211 (g), NSPS Subpart III: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 2.5 MW Caterpillar / 3516C (equivalent to 2500 KW or to 3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine defined as Emission Source ENG09, for black start and utility demand programs with "built-in" catalyst-based emissions control (Emission Control OXC09) and selective catalytic reduction (Emission Control SCR09).

The manufacturer's Oxides of Nitrogen (NO_x) anticipated emission factor for this engine is 0.59 grams per brake horsepower-hour (g/bhp-hr) or 0.802g/KW-hr.

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This condition specifies that any changes made to emissions related settings, not in accordance with manufacturer's requirements, must be tested to ensure that the unit meets the emissions limits.

Condition # 44 for 40 CFR 60.4211 (g), NSPS Subpart III: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Intermittent Emission Testing for Carbon Monoxide.

This condition applies to the 2.5 MW Caterpillar / 3516C (equivalent to 2500 KW or to 3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine defined as Emission Source ENG09, for black start and utility demand programs with "built-in" catalyst-based emissions control (Emission Control OXC09) and selective catalytic reduction (Emission Control SCR09).

The manufacturer's Carbon Monoxide (CO) limit for this engine is 0.03 grams per brake horsepower-hour (g/bhp-hr).

This condition specifies that any changes made to emissions related settings, not in accordance with manufacturer's requirements, must be tested to ensure that the unit meets the emissions limits.

Condition # 45 for 40 CFR 60.4211 (g), NSPS Subpart III: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Intermittent Emission Testing for Particulates.

This condition applies to the 2.5 MW Caterpillar / 3516C (equivalent to 2500 KW or to 3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine defined as Emission Source ENG09, for black start and utility demand programs with "built-in" catalyst-based emissions control (Emission Control OXC09) and selective catalytic reduction (Emission Control SCR09).

The Particulates (PM) limit for this engine is 0.03 grams per brake horsepower-hour (g/bhp-hr).

This condition specifies that any changes made to emissions related settings, not in accordance with manufacturer's requirements, must be tested to ensure that the unit meets the emissions limits.

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Condition # 46 for 40 CFR 60.4211 (g), NSPS Subpart III: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Intermittent Emission Testing for VOC.

This condition applies to the 2.5 MW Caterpillar / 3516C (equivalent to 2500 KW or to 3627 HP) fuel oil-fired (Process CAT) Tier 4 compression ignition engine defined as Emission Source ENG09, for black start and utility demand programs with "built-in" catalyst-based emissions control (Emission Control OXC09) and selective catalytic reduction (Emission Control SCR09).

The manufacturer provides an emission factor for Volatile Organic Compounds (VOC) for this engine of 0.01 grams per brake horsepower-hour (g/bhp-hr) or 0.136 g/KW-hr.

This condition specifies that any changes made to emissions related settings, not in accordance with manufacturer's requirements, must be tested to ensure that the unit meets the emissions limits.

Condition # 48 for 40 CFR 60.4243 (b) (2) (ii), NSPS Subpart JJJJ: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: JEN and Emission Sources/Controls: ENG08, OXC08/SCR08 for Intermittent Emission Testing for Particulates.

This condition applies to the 2.5 MW (equivalent to 2649 KW or to 4.55 MMBtu/hr) GE-Jenbacher / JSM-616 lean burn engine Emission Source ENG08, natural gas fired spark-ignited (Process JEN) equipped with selective catalytic reduction for NO_x (Emission Control SCR08) and catalytic oxidation for CO and VOC (Emission Control OXC08).

The NSPS Particulates limit for this engine is 0.04 g/bhp-hr or 3.43 ppmvd. This will be confirmed by a stack testing.

This condition requires the owner or operator of a stationary SI internal combustion engine greater than 500 HP to keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Condition # 50 for 40CFR 60.4243 (b) (2) (ii), NSPS Subpart JJJJ: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: JEN and Emission Sources/Controls: ENG08, OXC08/SCR08 for Intermittent Emission Testing for Carbon Monoxide.

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This condition applies to the 2.5 MW (equivalent to 2649 KW or to 4.55 MMBtu/hr) GE-Jenbacher / JSM-616 lean burn engine Emission Source ENG08, natural gas fired spark-ignited (Process JEN) equipped with selective catalytic reduction for NO_x (Emission Control SCR08) and catalytic oxidation for CO and VOC (Emission Control OXC08).

The NSPS Carbon Monoxide (CO) limit for this engine is 2.0 g/bhp-hr or 270 ppmvd. The manufacturer's anticipated emission factor is 0.156 g/bhp-hr, and NYU has chosen an arbitrary value of 0.3 grams per brake horsepower-hour (g/bhp-hr) to establish the PTE. This will be confirmed by stack testing.

This condition requires the owner or operator of a stationary SI internal combustion engine greater than 500 HP to keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Condition # 51 for 40CFR 60.4243 (b) (2) (ii), NSPS Subpart JJJJ: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: JEN and Emission Sources/Controls: ENG08, OXC08/SCR08 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 2.5 MW (equivalent to 2649 KW or to 4.55 MMBtu/hr) GE-Jenbacher / JSM-616 lean burn engine Emission Source ENG08, natural gas fired spark-ignited (Process JEN) equipped with selective catalytic reduction for NO_x (Emission Control SCR08) and catalytic oxidation for CO and VOC (Emission Control OXC08).

The NSPS Oxides of Nitrogen (NO_x) limit for this engine is 0.3 g/bhp-hr or 25 ppmvd. This will be confirmed by stack testing.

This condition requires the owner or operator of a stationary SI internal combustion engine greater than 500 HP to keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions.

Condition # 52 for 40CFR 60.4243 (b) (2) (ii), NSPS Subpart JJJJ: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: JEN and Emission Sources/Controls: ENG08, OXC08/SCR08 for Intermittent Emission Testing for VOC.

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This condition applies to the 2.5 MW (equivalent to 2649 KW or to 4.55 MMBtu/hr) GE-Jenbacher / JSM-616 lean burn engine Emission Source ENG08, natural gas fired spark-ignited (Process JEN) equipped with selective catalytic reduction for NOx (Emission Control SCR08) and catalytic oxidation for CO and VOC (Emission Control OXC08).

The NSPS Volatile Organic Compounds (VOC) limit for this engine is 0.7 g/bhp-hr or 60 ppmvd. NYU has chosen an arbitrary value of 0.3 grams per brake horsepower-hour (g/bhp-hr) to establish the PTE, though the anticipated actual value is 0.078 g/bhp-hr. This will be confirmed by a stack testing.

This condition requires the owner or operator of a stationary SI internal combustion engine greater than 500 HP to keep a maintenance plan and records of conducted maintenance and must, to the extent practicable, maintain and operate the engine in a manner consistent with good air pollution control practice for minimizing emissions

Condition # 54 for 40 CFR 60.4340, NSPS Subpart KKKK: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 005 and Emission Sources: TURB1 & TURB2 for Intermittent Stack Testing for Oxides of Nitrogen.

The two combustion turbines (Emission Sources TURB1 & TURB2) are subject to 40 CFR 60.KKKK - Standards of Performance for Stationary Combustion Turbines for the operation of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MM Btu) per hour, which commenced construction, modification, or reconstruction after February 18, 2005. The two combustion turbines are identical, and each one is approximately 60.5 MM Btu/hr and they will burn either natural gas (Process 004) or # 2 fuel oil (Process 005). This replaces the requirements of 40 CFR 60.GG which have expired. NOx emissions under 40 CFR 60.KKKK are limited to less than or equal to 25 ppm (when firing natural gas), and are limited to 74 ppm (when firing oil) subject to initial and periodic performance testing to confirm compliance.

The NOx emission limit for each of the two combustion turbines will be 74 ppm at 15% O2 firing fuels other than natural gas, where stack testing is required for compliance.

Condition # 55 for 40 CFR 60.4340, NSPS Subpart KKKK: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Sources: TURB1 & TURB2 for Intermittent Stack Testing for Oxides of Nitrogen.

The two combustion turbines (Emission Sources TURB1 & TURB2) are subject to 40 CFR 60.KKKK - Standards of Performance for Stationary Combustion Turbines for the

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operation of a stationary combustion turbine with a heat input at peak load equal to or greater than 10.7 gigajoules (10 MM Btu) per hour, which commenced construction, modification, or reconstruction after February 18, 2005. The two combustion turbines are identical, and each one is approximately 60.5 MM Btu/hr and they will burn either natural gas (Process 004) or # 2 fuel oil (Process 005). This replaces the requirements of 40 CFR 60.GG which have expired. NO_x emissions under 40 CFR 60.KKKK are limited to less than or equal to 25 ppm (when firing natural gas), and are limited to 74 ppm (when firing oil) subject to initial and periodic performance testing to confirm compliance.

The NO_x emission limit for each of the two turbines will be 25 ppm at 15% O₂ firing natural gas, where stack testing is required for compliance.

Condition # 56 for 40 CFR 60.4365(a), NSPS Subpart KKKK: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Sources: TURB1 & TURB2 for Sulfur Dioxide for Work Practice Involving Specific Operations.

Sulfur content in the natural gas combusting in the two new turbines is limited to 0.05% sulfur by weight. This is equivalent to 20 grains per 100 scf, and 0.06 lbs per million BTU of heat input.

Condition # 58 for 40 CFR 80.510 (b), Subpart I: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: 2-00000, EP: 00002, Process: CAT and Emission Sources/Controls: ENG09, OXC09/SCR09 for Work Practice Involving Specific Operations for Sulfur Dioxide.

This condition is for motor vehicle diesel fuel: non-road, locomotive and marine diesel fuel.

This condition requires that beginning June 1, 2010: Except as otherwise specifically provided in 40 CFR 80 Subpart I, all nonroad and locomotive marine diesel fuel is subject to the following per-gallon standards for sulfur content:

15 ppm maximum for NR diesel fuel.

Condition # 61 for 6 NYCRR 227-1.3 (a): This condition is an emission unit level and emission point level condition that applies to EU: 1-00000 and EP: 00001 for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. This condition prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity.

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The opacity is limited to 20% at Emission Point 00001 when the two combustion turbines (Emission Sources TURB1 & TURB2 and the three boilers (Emission Sources 0BLRA, 0BLRB and 0BLRC) are firing #2 fuel oil.

The facility is required to observe the stacks for each combustion source operating on oil once per day for visible emissions.

Condition # 64 for 6 NYCRR 227-2.4 (e) (2): This condition is an emission unit level, an emission point level, process level and emission source/control level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Control: DUCT1 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 1 for Emission Control DUCT1, where the combustion turbine fires natural gas and the duct burner also fires natural gas. The duct burner fires only natural gas.

NOx RACT requirements for combustion turbines fired with natural gas or distillate oil on or after July 1, 2014.

The proposed NOx RACT limit is 25 parts per million by volume (dry, corrected to 15% O₂) for the combined cycle combustion turbine (Emission Source TURB1) firing natural gas (Process 004) with its associated/corresponding duct burner (Emission Control DUCT1) in Emission Unit 1-00000.

Condition # 66 for 40 CFR 60.4325, NSPS Subpart KKKK: This condition is an emission unit level, an emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Source/Control: DUCT1 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 1 for Emission Control DUCT1, where the combustion turbine fires natural gas and the duct burner also fires natural gas. The duct burner fires only natural gas.

The facility will demonstrate compliance with the NOx standard of 25.0 parts per million by volume (dry, corrected to 15% O₂) for the turbine burning natural gas with its associated/corresponding HRSG duct burner (Emission Control DUCT1) burning natural gas, where stack testing is required for compliance.

Condition # 67 for 6 NYCRR 227-2.4 (e) (2): This condition is an emission unit level, an emission point level, process level and emission source/control level condition that

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applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Control: DUCT2 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 2 (Emission Source TURB2) firing natural gas (Process 004) with its associated/corresponding duct burner (Emission Controls DUCT2) where the combustion turbine fires natural gas and the duct burner also fires natural gas. The duct burner fires only natural gas.

NOx RACT requirements for combustion turbines fired with natural gas or distillate oil on or after July 1, 2014.

The proposed NOx RACT limit is 25 parts per million by volume (dry, corrected to 15% O₂) for the combined cycle combustion turbine (Emission Source TURB2) firing natural gas (Process 004) with its corresponding duct burner (Emission Control DUCT2) in Emission Unit 1-00000.

Condition # 68 for 40 CFR 60.4325, NSPS Subpart KKKK: This condition is an emission unit level, an emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Source/Control: DUCT2 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 2 (Emission Control DUCT2) firing natural gas (Process 004) with its corresponding duct burner (Emission Control DUCT2) where the combustion turbine fires natural gas and the duct burner also fires natural gas. The duct burner fires only natural gas.

The facility will demonstrate compliance with the NOx standard of 25.0 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine burning natural gas and with its associated/corresponding HRSG duct burner (Emission Control DUCT2) also burning natural gas, where stack testing is required for compliance.

Condition # 69 for 6 NYCRR 227-2.4 (e) (2): This condition is an emission unit level, an emission point level, process level and emission source/control level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Source: TURB1 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combustion turbine # 1 for Emission Source TURB1, where the combustion turbine fires natural gas without the duct burner.

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NOx RACT requirements for combustion turbines fired with natural gas or distillate oil on or after July 1, 2014.

The proposed NOx RACT limit is 25 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB1) firing natural gas (Process 004) without its associated/corresponding duct burner in Emission Unit 1-00000.

Condition # 77 for 40 CFR 60.4325, NSPS Subpart KKKK: This condition is an emission unit level, an emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Source/Control: TURB1 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combustion turbine # 1 for Emission Source TURB1, where the combustion turbine fires natural gas without the duct burner.

The facility will demonstrate compliance with the NOx standard of 25.0 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB1) burning natural gas without its associated/corresponding HRSG duct burner, where stack testing is required for compliance.

Condition # 79 for 6 NYCRR 227-2.4 (e) (2): This condition is an emission unit level, an emission point level, process level and emission source/control level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Source: TURB2 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 2 (Emission Source TURB2) firing natural gas (Process 004) without its associated/corresponding duct burner, where the combustion turbine fires natural gas.

NOx RACT requirements for combustion turbines fired with natural gas or distillate oil on or after July 1, 2014.

The proposed NOx RACT limit is 25 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB2) firing natural gas (Process 004) without its associated/corresponding duct burner in Emission Unit 1-00000.

Condition # 80 for 40 CFR 60.4325, NSPS Subpart KKKK: This condition is an emission unit level, an emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 004 and Emission Source/Control: TURB2 for Intermittent Emission Testing for Oxides of Nitrogen.

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This condition applies to the 5.5 megawatt SOLAR/TAURUS combustion turbine # 2 (Emission Sources TURB2) firing natural gas (Process 004) without its associated/corresponding duct burner, where the combustion turbine fires natural gas.

The facility will demonstrate compliance with the NO_x standard of 25.0 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB2) without its associated/corresponding HRSG duct burner (Emission Control DUCT2), burning natural gas without its associated HRSG duct burner, where stack testing is required for compliance

Condition # 83 for 6 NYCRR 227-2.4 (e) (2): This condition is an emission unit level, an emission point level, process level and emission source/control level condition that applies to EU: 1-00000, EP: 00001, Process: 005 and Emission Source/Control: TURB1 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 1 (Emission Source TURB1) firing # 2 fuel oil (Process 005) without its associated/corresponding duct burner, where the combustion turbine fires # 2 fuel oil.

NO_x RACT requirements for combustion turbines fired with natural gas or distillate oil on or after July 1, 2014.

The proposed NO_x RACT limit is 65 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB1) firing # 2 fuel oil (Process 005) without its associated/corresponding duct burner in Emission Unit 1-00000.

Condition # 84 for 40 CFR 60.4325, NSPS Subpart KKKK: This condition is an emission unit level, an emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 005 and Emission Source/Control: TURB1 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combustion turbine # 1 for Emission Source TURB1, where the combustion turbine fires # 2 fuel oil without its associated/corresponding HRSG duct burner.

The facility will demonstrate compliance with the NO_x standard of 74.0 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB1) burning # 2 fuel oil without its associated/corresponding HRSG duct burner, where stack testing is required for compliance.

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Condition # 85 for 6 NYCRR 227-2.4 (e) (2): This condition is an emission unit level, an emission point level, process level and emission source/control level condition that applies to EU: 1-00000, EP: 00001, Process: 005 and Emission Source/Control: TURB2 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combined cycle combustion turbine # 2 (Emission Source TURB2) firing # 2 fuel oil (Process 005) without its associated/corresponding duct burner, where the combustion turbine fires # 2 fuel oil.

NOx RACT requirements for combustion turbines fired with natural gas or distillate oil on or after July 1, 2014.

The proposed NOx RACT limit is 65 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Sources TURB2) firing # 2 fuel oil (Process 005) without its associated/corresponding duct burner in Emission Unit 1-00000.

Condition # 87 for 40 CFR 60.4325, NSPS Subpart KKKK: This condition is an emission unit level, an emission point level, process level and emission source level condition that applies to EU: 1-00000, EP: 00001, Process: 005 and Emission Source/Control: TURB2 for Intermittent Emission Testing for Oxides of Nitrogen.

This condition applies to the 5.5 megawatt SOLAR/TAURUS combustion turbine # 2 for Emission Source TURB2, where the combustion turbine fires # 2 fuel oil without its associated/corresponding HRSG duct burner.

The facility will demonstrate compliance with the NOx standard of 74.0 parts per million by volume (dry, corrected to 15% O₂) for the combustion turbine (Emission Source TURB2) burning # 2 fuel oil without its associated/corresponding HRSG duct burner, where stack testing is required for compliance.

Condition # 88 for 6 NYCRR 227-1.3 (a): This condition is an emission unit level, an emission point level and a process level condition that applies to EU: 1-00000, EP: 00001 and Process: 006 for Monitoring of Process or Control Device Parameters as Surrogate for Particulates.

This condition applies to the three mid-size boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) when operating on # 2 fuel oil (Process 006).

This condition prohibits any person from operating a stationary combustion installation which emits smoke equal to or greater than 20% opacity except for one six-minute period per hour of not more than 27% opacity when firing # 2 fuel oil (Process 006).

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The opacity is limited to 20% at Emission Point 00001 when any of the combustion turbines is firing #2 fuel oil (Process 006).

Condition # 95 for 6 NYCRR 227-1.4 (a): This condition is an emission unit level and an emission point level condition that applies to EU: 1-00000 and EP: 00001 for Monitoring of Process or Control device Parameters as Surrogate for Particulates.

This condition applies to the three mid-size boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) when operating on # 2 fuel oil (Process 006).

This condition requires a limitation and compliance monitoring for opacity from a stationary combustion installation: The opacity will be limited to 20% except for one six minute period per hour, not to exceed 27%, based upon the six minute average.

As per 6 NYCRR 227-1.4, COMS is required on combustion sources exceeding 250 MMBtu/hr heat input, excluding gas turbines. Heat input at Emission Point 00001 from the small boilers (Emission Sources 0BLRA, 0BLRB & 0BLRC) @ 65 MMBtu/hr each total 195 MMBtu/hr (< 250 MMBtu/hr), therefore COMS is not required, but the existing continuous opacity monitoring system (COMS) unit will voluntarily remain on the stack of Emission Point 00001.

This condition requires the specific contents of excess emissions reports for opacity from facilities that employ continuous opacity monitors (COMs).

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