



**New York State Department of Environmental Conservation
Permit Review Report**

Permit ID: 2-6005-00133/00002

Renewal Number: 2

Modification Number: 1 06/28/2013

Facility Identification Data

Name: ALBERT EINSTEIN COLLEGE OF MEDICINE
Address: 1300 MORRIS PARK AVE
BRONX, NY 10461

Owner/Firm

Name: YESHIVA UNIVERSITY
Address: 1300 MORRIS PARK AVE
BRONX, NY 10461-1062, 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

This project is a minor modification permit application to seek permission to fire #2 fuel oil and thus demonstrate compliance with the NOx RACT regulation. Fuel oil conversion and burner upgrades will be made prior to July 1, 2014. Until the fuel conversion process is completed, the facility will continue to



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fire #6 fuel oil. The four mid-size boilers will burn natural gas and #6 fuel oil or #2 fuel oil in a combination such that the total annual maximum rolling NO_x will remain under 135 TPY and SO₂ will remain under 140 TPY. There will not be any particular limitation or capping on the fuel quantities.

Thus, this is an Air Title V modification permit application to seek an operating air permit for complying with the new 2014 NO_x RACT rule and regulation by switching from #6 fuel oil to #2 fuel oil. This application is to comply with the new 2014 NO_x RACT Compliance requirement for all eight (8) boilers. This requested modification does not modify the Netting Analysis, thereby not triggering NSR or PSD requirements.

In order to comply with the 2014 NO_x RACT Regulations, Einstein had engaged a boiler/mechanical contractor to switch from #6 fuel oil to #2 fuel oil. Necessary modifications to the burner management system will be made to enable #2 fuel oil firing in the same burners. Einstein plans to comply with the new 2014 NO_x RACT (Oxides of Nitrogen Reasonably Available Control Technology) by switching to #2 fuel oil firing from #6 fuel oil firing. The change in process to account for the #2 oil emissions has been addresses in this application. There are no changes to the facility's steam and hot-water load/demand. The facility will continue to burn #6 fuel oil until the fuel conversion work is completed but no later than July 1, 2014. The primary fuel will still be natural gas.

Two of the four boilers are identical Babcock & Wilcox (B & W) boilers, each rated at 94 MM Btu/hr, and the other two are identical Keeler boilers, each rated at 91 MM Btu/hr. As per the newly (amendment of June 8, 2010) enacted NO_x RACT (Oxides of Nitrogen Reasonably Available Control Technology) Regulations of 6 NYCRR 227-2, these four boilers are defined as mid-size boilers (>25 MM Btu/hr and <100 MM Btu/hr). The Rule requires demonstrating compliance with the lowered NO_x limit of 0.08 lbs/MM Btu for mid-size boilers, when switching fuel from #6 fuel oil to #2 fuel oil. All four boilers are capable of firing natural gas (primary) and #6 fuel oil (back up fuel) until July 1, 2014, and on natural gas (primary fuel) and #2 fuel oil (back up fuel) on or after July 1, 2014. The NO_x RACT limit prior to July 1, 2014 is 0.30 lbs/MM Btus, and on or after July 1, 2014, the NO_x RACT limit is 0.20 lbs/MM Btus due to switching to a cleaner fuel for the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B). Flue gases vent via a common stack.

Albert Einstein College of Medicine (Einstein) currently operates a few stationary combustion sources that include four (4) mid-size boilers. In addition, Einstein operates three (3) diesel compression ignition non-emergency turbocharged generators in the Coordinated Demand Response Program (CDRP), four (4) Federal boilers (<10 MM Btu/hr, two are 8.4 MM Btu/hr each (burning #4 fuel oil only) and the other two are 4.1 MM Btu/hr each (burning natural gas and #2 fuel oil), few exempt sources such as nine (9) emergency generators and sixteen (16) bulk oil storage tanks.

Among the three non-emergency generators, two are identical Caterpillar 3516, each rated at 1750 KW, manufactured in 2008, located in the Price Center Building. The third generator is a Caterpillar 3512, rated at 1000 KW, located in the Ullmann Research Center. All three generators are permitted under the Title V permit and have been granted NO_x RACT variance. These generators will continue to operated based on the variance granted (7.5 g/bhp-hr for CDRP2, 4.5 g/bhp-hr for CDRP3 & CDRP4). Thus, comply with the NO_x RACT requirements. Also, engines' cylinder size is below 10 liters per cylinder:

Price Center: Caterpillar 3516B, 4210 CID/16 cylinder = 263.125 CI per cylinder, 69.1 liter, 4.31875 liters per cylinder, and

Ullmann Building: Caterpillar 3512, 3158 CID /12 cylinder = 263.1666 CI per cylinder, 51.8 liters, 4.31666 liters per cylinder.



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In addition, these compression ignition generators are subject to Subpart ZZZZ of 40 CFR 60. These generators are NOT required to reduce Carbon Monoxide emissions by 70% as Einstein plans to cap the maximum total annual operating hours of these three engines to under 100 hours. However, these three engines will require to comply with the maintenance requirements pertaining to Subpart ZZZZ which includes changing filters on an annual basis. The compliance date is 10/19/2013. Einstein will comply with the Subpart ZZZZ requirements prior to 10/19/2013 by setting up a schedule of maintenance on the engines. Einstein plans to comply with the new 2014 NOx RACT (Oxides of Nitrogen Reasonably Available Control Technology) by changing the burner tip.

Attainment Status

ALBERT EINSTEIN COLLEGE OF MEDICINE is located in the town of BRONX in the county of BRONX.

The attainment status for this location is provided below. (Areas classified as attainment are those that meet all ambient air quality standards for a designated criteria air pollutant.)

Criteria Pollutant	Attainment Status
Particulate Matter (PM)	ATTAINMENT
Particulate Matter < 10µ in diameter (PM10)	ATTAINMENT
Sulfur Dioxide (SO2)	ATTAINMENT
Ozone*	SEVERE NON-ATTAINMENT
Oxides of Nitrogen (NOx)**	ATTAINMENT
Carbon Monoxide (CO)	ATTAINMENT

* 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:

Albert Einstein College of Medicine (AECOM) of Yeshiva University is located at 1300 Morris Park Avenue, Bronx, NY, is a medical educational institution, and a Title V facility. The standard industrial classification (SIC) code for this facility is 8221 - Colleges and Universities. AECOM operates four (4) main mid-size boilers (< 100 MM Btu/hr) - Emission Sources 0094A, 0094B, 0091A & 0091B, firing both natural gas (Process GAS) and #6 fuel oil (Process OL6) prior to July 1, 2014, and firing both natural gas (Process GAS) and #2 fuel oil (Process OL2) on or after July 1, 2014. The facility also operates four (4) small Federal boilers (<10 MM Btu/hr) - Emission Sources BL41A, BL41B, BL84A & BL84B, firing natural gas (Process NGP), #2 fuel oil (Process NO2) or #4 fuel oil (Process NO4), three (3) emergency generators in the Coordinated Demand Response Program (CDRP) - Emission Sources CDRP2, CDRP3 & CDRP4, few exempt sources such as sixteen (16) bulk oil storage tanks, approximately 350 fumehoods, and nine (9) emergency generators currently permitted under the Title V permit. The facility is currently using three (3) of its emergency generators into NYISO's coordinated demand response program (CDRP), and plans to use a fourth generator (Emission Source CDRP1) into the CDRP after a NOx variance is sought and approved.

This application is submitted to comply with the new 2014 NOx RACT Compliance requirement for all eight (8) boilers.



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The existing facility includes the following four (4) engine generators:

- (a) 900 KW CAT D399 in the Chanin Building - Emission Source CDRP1,
- (b) 1,000 KW CAT 3512 in the Ullmann Building - Emission Source CDRP2,
- (c) 1,750 KW CAT 3516 in the Price Center - Emission Source CDRP3, and
- (d) 1,750 KW CAT 3516 in the Price Center - Emission Source CDRP4.

All four (4) generators are large stationary internal combustion, lean burn, and compression ignition.

Also, engines' cylinder size is below 10 liters per cylinder:

Price Center: Caterpillar 3516B, 4210 CID/16 cylinder = 263.125 CI per cylinder, 69.1 liter, 4.31875 liters per cylinder, and

Ullmann Building: Caterpillar 3512, 3158 CID /12 cylinder = 263.1666 CI per cylinder , 51.8 liters, 4.31666 liters per cylinder.

The existing facility includes the following eight (8) boilers:

- (i) 2-94 MM Btu/hr Babcock & Wilcox boilers (in the Powerhouse) - Emission Sources 0094A & 0094B,
- (ii) 2-91 MM Btu/hr Keeler boilers (in the Powerhouse) - Emission Sources 0091A & 0091B,
- (iii) 2-4.1 MM Btu/hr Federal boilers (in the Rouso Building) - Emission Sources BL41A & BL41B,
- (iv) 2-8.4 MM Btu/hr Federal boilers (in the Rhinelander Building) - Emission Sources BL84A & BL84B, and

This application is to comply with the new 2014 NO_x RACT Compliance requirement for all eight (8) boilers.

The four (4) main mid-size boilers identified as Emission Sources 0091A, 0091B, 0094A & 0094B firing both natural gas (Process GAS) and #6 fuel oil (Process OL6) prior to July 1, 2014, and firing both natural gas (Process GAS) and #2 fuel oil (Process OL2) on or after July 1, 2014, which are limited to 135 tpy of NO_x emissions and 140 tpy of SO₂ emission. The four CDRP generators identified as CDRP1, CDRP2, CDRP3 & CDRP4 are limited to 22.5 tpy of NO_x emissions.

Permit Structure and Description of Operations

The Title V permit for ALBERT EINSTEIN COLLEGE OF MEDICINE

is structured in terms of the following hierarchy: facility, 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:



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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.

ALBERT EINSTEIN COLLEGE OF MEDICINE is defined by the following emission unit(s):

Emission unit U00002 - Emission Unit U-00002 consists of four (4) engine generators, identified as Emission Sources CDRP1, CDRP2, CDRP3 and CDRP4, that will be participating in the CDRP (Coordinated Demand Reduction Program), emergencies, and stack testing. However, at this time, only three (3) generators (CDRP2, CDRP3 and CDRP4) have been stack tested, and a NOx variance on these three generators only is being sought. If in the future, AECOM (Albert Einstein College of Medicine) decides to add the generator identified as CDRP1 (in the Chanin Building) to participate in the CDRP, then a NOx variance will be sought first before participation.

All four (4) engine generators; Engine generator identified as CDRP1 in the Chanin Building, engine generator identified as CDRP2 in the Ullmann Building, and engine generators identified as CDRP3 & CDRP4 in the Price Center Building fire diesel fuel oil (Process GEN). All 4 generators are large stationary internal combustion, lean burn, compression ignition and turbocharged (not naturally aspired). Also, engines' cylinder size is below 10 liters per cylinder:

Price Center: Caterpillar 3516B, 4210 CID/16 cylinder = 263.125 CI per cylinder, 69.1 liter, 4.31875 liters per cylinder, and

Ullmann Building: Caterpillar 3512, 3158 CID /12 cylinder = 263.1666 CI per cylinder , 51.8 liters, 4.31666 liters per cylinder.

The emissions from Emission Source CDRP1 engine generator in the Chanin Building vent from its own separate stack, identified as Emission Point 00002. The emissions from Emission Source CDRP2 engine generator in the Ullmann Building vent from its own separate stack, identified as Emission Point 00003. The emissions from Emission Sources CDRP3 & CDRP4 engine generators in the Price Center Building vent from two separate stacks, identified as Emission Points 00004 & 00005; respectively.

Emission Source CDRP1 engine generator in the Chanin Building is a 900 kilowatts 1984 model year generator, Emission Source CDRP2 engine generator in the Ullmann Building is a 1000 kilowatts 1984 model year generator, and Emission Sources CDRP3 & CDRP4 are both 2005 model year generators.

The generator in the Chanin Building (Emission Source CDRP1) will not participate in the CDRP until ready and the NOx variance sought.

In case of emergencies, each generator can run up to a maximum of 500 hours per year (PTE).



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Emission unit U00002 is associated with the following emission points (EP):
00002, 00003, 00004, 00005

Process: G01 is located at Building 3 - Process G01 is the firing of diesel fuel oil in the engine generator identified as Emission Sources CDRP1 in Emission Unit U-00002. The emissions from Emission Source CDRP1 generator vent from its own separate stack, identified as Emission Point 00002.

The 900 KW Caterpillar/D399 generator is located in the Chanin Building, identified as Emission Source CDRP1 will not participate in the CDRP until ready and the variance sought. This CDRP1 engine generator is 1984 Model year, large stationary internal combustion, lean burn, and compression ignition.

Process: G02 is located at Building 4 - Process G02 is the firing of diesel fuel oil in the engine generator identified as Emission Source CDRP2 in Emission Unit U-00002. The emissions from Emission Source CDRP2 generator vent from its own separate stack, identified as Emission Point 00003.

The 1000 KW Caterpillar/3512 generator is located in the Ullmann Building, identified as Emission Source CDRP2, will participate in the CDRP and a variance is being sought. This CDRP2 engine generator is 1984 Model year, large stationary internal combustion, lean burn, and compression ignition.

Process: G34 is located at Building 5 - Process G34 is the firing of diesel fuel oil in the two engine generators identified as Emission Source CDRP3 & Emission Source CDRP4 in Emission Unit U-00002. The emissions from Emission Sources CDRP3 & CDRP4 engine generators vent from two separate stacks, identified as Emission Points 00004 & 00005; respectively.

The 1750 KW Caterpillar/3516 each generators are located in the Price Center Building, identified as Emission Sources CDRP3 & CDRP4, will participate in the CDRP and a variance is being sought. These two engine generators are 2005 Model year, large stationary internal combustion, lean burn, and compression ignition.

Process: GEN is located at Building 3 - Process GEN is the firing of diesel fuel oil in the four (4) engine generators identified as Emission Sources CDRP1, CDRP2, CDRP3 and CDRP4 in Emission Unit U-00002. The emissions from Emission Source CDRP1 engine generator in the Chanin Building vent from its own separate stack, identified as Emission Point 00002. The emissions from Emission Source CDRP2 engine generator in the Ullmann Building vent from its own separate stack, identified as Emission Point 00003. The emissions from Emission Sources CDRP3 & CDRP4 engine generators in the Price Center Building vent from two separate stacks, identified as Emission Points 00004 & 00005; respectively.

All 4 generators are large stationary internal combustion, lean burn, compression ignition, and turbocharged (not naturally aspired). At this time, only Emission Sources CDRP2, CDRP3 and CDRP4 will be participating in the CDRP (Coordinated Demand Reduction Program), emergencies, and stack testing. At this time, the three generators participating in the CDRP have been stack tested, and a NOx variance on these three generators only is being sought. If in the future, AECOM (Albert Einstein College of Medicine) decides to add the generator identified as CDRP1 (in the Chanin Building) to participate in the CDRP, then a NOx variance will be sought first before participation.

The 900 KW Caterpillar/D399 generator is located in the Chanin Building, identified as Emission Source CDRP1 will not participate in the CDRP until ready and the NOx variance sought. This CDRP1 engine generator is 1984 Model year, large stationary internal combustion, lean burn, and compression ignition.

The 1000 KW Caterpillar/3512 generator is located in the Ullmann Building, identified as Emission



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Source CDRP2, will participate in the CDRP and a variance is being sought. This CDRP2 engine generator is 1984 Model year, large stationary internal combustion, lean burn, and compression ignition.

The 1750 KW Caterpillar/3516 each generators are located in the Price Center Building, identified as Emission Sources CDRP3 & CDRP4, will participate in the CDRP and a variance is being sought. These two engine generators are 2005 Model year, large stationary internal combustion, lean burn, and compression ignition.

In case of emergencies, each generator can run up to a maximum of 500 hours per year (PTE).

Einstein will operate these generators/engines in the CDRP such that the total operating hours per engine will not exceed the maximum operating hours of 100 hrs/yr. By this capping (of 100 hrs/yr per engine), the engines will NOT be required to reduce Carbon Monoxide emissions and CO reduction systems are NOT required to be installed. Other Subpart ZZZZ related maintenance requirements will be performed (oil change, filters, tune-up, etc.)

Emission unit U00003 - Emission Unit U-00003 consists of four (4) small Federal boilers, the two 4.1 MM Btu/hr each (Emission Sources BL41A & BL41B) in the Rousso Building and the two 8.4 MM Btu/hr each in the Rhinelander Building (Emission Sources BL84A & BL84B). Boiler BL41A operates on natural gas (Process NGP) only, Boiler BL41B operates on natural gas (Process NGP) as the primary fuel and on #2 fuel oil (Process NO2) as the back-up fuel, and Boilers BL84A & BL84B operate on only #4 fuel oil (Process NO4). The emissions from Boilers BL41A & BL41B vent from one common stack in the Rousso Building, connected to these two boilers, defined as Emission Point 00006. The emissions from Boilers BL84A & BL84B vent from one common stack in the Rhinelander Building, connected to these two boilers, defined as Emission Point 00007.

Emission Points 00006 & 00007, Processes NGP, NO2 & NO6 and Emission Sources BL41A, BL41B, BL84A & BL84B are associated with Emission Unit U-00003.

Emission Unit U-00003 consists of four (4) small Federal boilers, each below 10 MM Btu/hr. They are:

E Source	Manufacturer	Building	Heat Input	Process	E Point
BL41A	Federal	Rousso	4.1 MM Btu/hr	NGP only	00006
BL41B	Federal	Rousso	4.1 MM Btu/hr	NO2 & NGP	00006
BL84A	Federal	Rhinelander	8.4 MM Btu/hr	NO6 only	00007
BL84B	Federal	Rhinelander	8.4 MM Btu/hr	NO6 only	00007



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Emission unit U00003 is associated with the following emission points (EP):
00006, 00007

Process: NGP is located at Building 6 - Process NGP is the firing of natural gas in the 4.1 MM Btu/hr small Federal boiler in the Russo Building (Emission Source BL41A) as the primary fuel, and also in the 4.1 MM Btu/hr small Federal boiler in the Russo Building (Emission Source BL41B) as the secondary fuel. The emissions from Boilers BL41A & BL41B vent from one common stack in the Russo Building, connected to these two boilers, defined as Emission Point 00006.

Boiler BL41A operates on only natural gas, and Boiler BL41B operates on natural gas (Process NGP) as the primary fuel and on #2 fuel oil (Process NO2) as the back-up fuel.

Emission Points 00006 & 00007, Processes NGP, NO2 & NO6 and Emission Sources BL41A, BL41B, BL84A & BL84B are associated with Emission Unit U-00003.

Process: NO2 is located at Building 6 - Process NO2 is the firing of distillate fuel oil (#2 fuel oil) in the 4.1 MM Btu/hr small Federal boiler in the Russo Building (Emission Source BL41B). The emissions from Boilers BL41A & BL41B vent from one common stack in the Russo Building, connected to these two boilers, defined as Emission Point 00006.

Boiler BL41B operates on natural gas (Process NGP) as the primary fuel and on #2 fuel oil (Process NO2) as the back-up fuel.

Emission Points 00006 & 00007, Processes NGP, NO2 & NO6 and Emission Sources BL41A, BL41B, BL84A & BL84B are associated with Emission Unit U-00003.

Process: NO4 is located at Building 7 - Process NO4 is the firing of distillate fuel oil (# 4 fuel oil) in the two 8.4 MM MBtu/hr each Federal boilers (Emission Sources BLR03 & BLR04) in Emission Unit U-00003 in the Rhinelander Building (Emission Sources BLR03 & BLR04). The emissions from Boilers BL84A & BL84B vent from one common stack in the Rhinelander Building, connected to these two boilers, defined as Emission Point 00007.

Boilers BL84A & BL84B operate only on NO4 (# 4 fuel oil).

Emission Points 00006 & 00007, Processes NGP, NO2 & NO4 and Emission Sources BL41A, BL41B, BL84A & BL84B are associated with Emission Unit U-00003.

Emission unit U00001 - Emission Unit U-00001 consists of four main mid-size low-NOx boilers. All four boilers are located in the Powerhouse and are dual-fuel fired, natural gas (Process GAS) as the primary fuel, and #6 fuel oil (Process OIL) as a back-up fuel. Two of the four boilers (Emission Sources 0094A & 0094B) are new and are Babcock & Wilcox boilers and are rated at 94 MM Btu/hr each. The other two boilers (Emission Sources 0091A & 0091B) are existing Keeler boilers and are rated at 91 MM Btu/hr each. The emissions from all four boilers vent from one common stack, connected to the



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existing boilers, defined as Emission Point 00001.

Emission Point 00001, Processes OIL & GAS, and Emission Sources 0091A, 0091B, 0094A & 0094B are associated with Emission Unit U-00001.

Emission unit U00001 is associated with the following emission points (EP):
00001

Process: GAS is located at Main, Building 2 - Process GAS is the firing of natural gas (primary fuel) in the four mid-size low-NOx boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) in Emission Unit U-00001. All four boilers are located in the Powerhouse and are dual-fuel fired, natural gas and #6 fuel oil prior to 7/1/2014 and #2 fuel oil beginning 7/1/2014. Two of the four boilers (Emission Sources 0094A & 0094B) are new (began operating on 12/1/2006, but not to its maximum capacity yet) and are Babcock & Wilcox boilers and are rated at 94 MM Btu/hr each. The other two boilers (Emission Sources 0091A & 0091B) are existing Keeler boilers (since 1967 & 1970) and are rated at 91 MM Btu/hr each. The emissions from all four boilers vent from one common stack, connected to the existing boilers, and identified as Emission Point 00001.

Emission Unit U-00001, Emission Point 00001 and Emission Sources 0091A, 0091B, 0094A & 0094B are associated with Processes GAS , OL2 & OL6.

Process: OIL is located at Building 2 - Process OIL is the firing of #6 fuel oil (secondary fuel) in the four mid-size low-NOx boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) in Emission Unit U-00001. All four boilers are located in the Powerhouse and are dual-fuel fired, natural gas and #6 fuel oil. Two of the four boilers (Emission Sources 0094A & 0094B) are new (began operating on 12/1/2006, but not to its maximum capacity yet) and are Babcock & Wilcox boilers and are rated at 94 MM Btu/hr each. The other two boilers (Emission Sources 0091A & 0091B) are existing Keeler boilers (since 1967 & 1970) and are rated at 91 MM Btu/hr each. The emissions from all four boilers vent from one common stack, connected to the existing boilers, and identified as Emission Point 00001.

Emission Unit U-00001, Emission Point 00001 and Emission Sources 0091A, 0091B, 0094A & 0094B are associated with Processes GAS & OIL.

Process: OL2 is located at Main, Building 2 - Process OL2 is the firing of #2 fuel oil (secondary fuel) in the four mid-size low-NOx boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) in Emission Unit U-00001. Process OL2 will begin prior to 7/1/2014 or earlier when #6 fuel oil uage will terminate. All four boilers are located in the Powerhouse and 0094A & 0094B) are new (began operating on 12/1/2006, but not to its maximum



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capacity yet) and are Babcock & Wilcox boilers and are rated at 94 MM Btu/hr each. The other two boilers (Emission Sources 0091A & 0091B) are existing Keeler boilers (since 1967 & 1970) and are rated at 91 MM Btu/hr each. The emissions from all four boilers vent from one common stack, connected to the existing boilers, and identified as Emission Point 00001.

Emission Unit U-00001, Emission Point 00001 and Emission Sources 0091A, 0091B, 0094A & 0094B are associated with Processes GAS & OL2.

Process: OL6 is located at Main, Building 2 - Process OL6 is the firing of #6 fuel oil (secondary fuel) in the four mid-size low-NOx boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) in Emission Unit U-00001. Process OL6 will terminate on or before 7/1/2014. All four boilers are located in the Powerhouse and are dual-fuel fired, natural gas and #6 fuel oil. Two of the four boilers (Emission Sources 0094A & 0094B) are new (began operating on 12/1/2006, but not to its maximum capacity yet) and are Babcock & Wilcox boilers and are rated at 94 MM Btu/hr each. The other two boilers (Emission Sources 0091A & 0091B) are existing Keeler boilers (since 1967 & 1970) and are rated at 91 MM Btu/hr each. The emissions from all four boilers vent from one common stack, connected to the existing boilers, and identified as Emission Point 00001.

Emission Unit U-00001, Emission Point 00001 and Emission Sources 0091A, 0091B, 0094A & 0094B are associated with Processes GAS , OL2 & OL6.

Title V/Major Source Status

ALBERT EINSTEIN COLLEGE OF MEDICINE is subject to Title V requirements. This determination is based on the following information:

Albert Einstein College of Medicine is a major facility because the potential emissions of nitrogen oxides is greater than the major source thresholds, which is 25 tons per year for nitrogen oxides.

Program Applicability

The following chart summarizes the applicability of ALBERT EINSTEIN COLLEGE OF MEDICINE with regards to the principal air pollution regulatory programs:

Regulatory Program	Applicability
PSD	NO
NSR (non-attainment)	NO
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) - 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 Part 231) - 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) - 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) - 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) - 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) - regulations which mandate the implementation of the acid rain control program for large stationary combustion facilities.

Title VI Stratospheric Ozone Protection (40 CFR 82, Subparts A thru G) - 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 212.10, 226, 227-2, 228, 229, 230, 232, 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) - as per the CAAA, all states are empowered and required to devise the specific combination of controls that, when implemented, will bring



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about attainment of ambient air quality standards established by the federal government and the individual state. This specific combination of measures is referred to as the SIP. The term here refers to those state regulations that are approved to be included in the SIP and thus are considered federally enforceable.

Compliance Status

Facility is in compliance with all requirements.

SIC Codes

SIC or Standard Industrial Classification code is an industrial code developed by the federal Office of Management and Budget for use, among other things, in the classification of establishments by the type of activity in which they are engaged. Each operating establishment is assigned an industry code on the basis

of its primary activity, which is determined by its principal product or group of products produced or distributed, or services rendered. Larger facilities typically have more than one SIC code.

SIC Code

Description

6512	NONRESIDENTIAL BUILDING OPERATORS
8221	COLLEGES AND UNIVERSITIES, NEC

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

1-02-005-03	EXTERNAL COMBUSTION BOILERS - INDUSTRIAL INDUSTRIAL BOILER - DISTILLATE OIL <10MMBTU/HR **
1-03-004-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - RESIDUAL OIL 10-100MMBTU/HR **
1-03-005-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL 10-100MMBTU/HR **
1-03-005-04	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - DISTILLATE OIL Grade 4 Oil
1-03-006-02	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS 10-100 MMBtu/Hr
1-03-006-03	EXTERNAL COMBUSTION BOILERS - COMMERCIAL/INDUSTRIAL COMMERCIAL/INSTITUTIONAL BOILER - NATURAL GAS



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2-02-004-01

Less Than 10 MMBtu/Hr
INTERNAL COMBUSTION ENGINES - INDUSTRIAL
INDUSTRIAL INTERNAL COMBUSTION LARGE BORE
ENGINE
Diesel

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 Range represents an emission range for a contaminant. Any PTE quantity that is displayed represents a facility-wide emission cap or limitation for that contaminant. If no PTE quantity is displayed, the PTE Range is provided to indicate the approximate magnitude of facility-wide emissions for the specified contaminant in terms of tons per year (tpy). 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 Name	PTE	Range
		lbs/yr	
0NY508-00-0	40 CFR 60 SUBPART IIII - NMHC + NOX	31718.06	
000630-08-0	CARBON MONOXIDE	816931.8	
0NY210-00-0	OXIDES OF NITROGEN	2265582.9	
0NY075-00-0	PARTICULATES	277987.3	
007446-09-5	SULFUR DIOXIDE	1164924.3	
0NY998-00-0	VOC	481491.2	

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;



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(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;
(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and
(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

(b) In any enforcement proceeding, the facility owner or operator seeking to establish the occurrence of an emergency has the burden of proof.

(c) This provision is in addition to any emergency or upset provision contained in any applicable requirement.

Item B: 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 C: Timely Application for the Renewal of Title V Permits -6 NYCRR Part 201-6.2(a)(4)

Owners and/or operators of facilities having an issued Title V permit shall submit a complete application at least 180 days, but not more than eighteen months, prior to the date of permit expiration for permit renewal purposes.

Item D: 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 E: 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 F: 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.



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Item G: 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 H: 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 I: 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 J: Permit Shield - 6 NYCRR Part 201-6.4(g)

All permittees granted a Title V facility permit shall be covered under the protection of a permit shield, except as provided under 6 NYCRR Subpart 201-6. Compliance with the conditions of the permit shall be deemed compliance with any applicable requirements as of the date of permit issuance, provided that such applicable requirements are included and are specifically identified in the permit, or the Department, in acting on the permit application or revision, determines in writing that other requirements specifically identified are not applicable to the major stationary source, and the permit includes the determination or a concise summary thereof. Nothing herein shall preclude the Department from revising or revoking the permit pursuant to 6 NYCRR Part 621 or from exercising its summary abatement authority. Nothing in this permit shall alter or affect the following:

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of 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 K: 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



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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 L: Permit Exclusion - ECL 19-0305

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

Item M: 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: 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	152	Powers and Duties of the Department with respect to air pollution control
FACILITY	40CFR 52-A.21(j)	1 -18	Best Available Control Technology
U- 00001/00001/OIL/0094A	40CFR 60-A	73	General provisions
U- 00001/00001/OIL/0094B	40CFR 60-A	106	General provisions
U- 00001/00001/OIL/0094A	40CFR 60-A.11	87	General provisions - compliance with standards and maintenance requirements
U- 00001/00001/OIL/0094B	40CFR 60-A.11	120	General provisions - compliance with standards and maintenance requirements
U- 00001/00001/OIL/0094A	40CFR 60-A.12	88	General provisions - Circumvention
U- 00001/00001/OIL/0094B	40CFR 60-A.12	121	General provisions - Circumvention
U- 00001/00001/OIL/0094A	40CFR 60-A.13	89	General provisions - Monitoring requirements
U- 00001/00001/OIL/0094B	40CFR 60-A.13	122	General provisions - Monitoring requirements
U- 00001/00001/OIL/0094A	40CFR 60-A.13(c)	90	General provisions - Monitoring requirements
U- 00001/00001/OIL/0094B	40CFR 60-A.13(c)	123	General provisions - Monitoring requirements
U- 00001/00001/OIL/0094A	40CFR 60-A.14	91	General provisions - Modification
U- 00001/00001/OIL/0094B	40CFR 60-A.14	124	General provisions - Modification



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U- 00001/00001/OIL/0094A	40CFR 60-A.15	92	General provisions - Reconstruction
U- 00001/00001/OIL/0094B	40CFR 60-A.15	125	General provisions - Reconstruction
U- 00001/00001/OIL/0094A	40CFR 60-A.4	74	General provisions - Address
U- 00001/00001/OIL/0094B	40CFR 60-A.4	107	General provisions - Address
U- 00001/00001/OIL/0094A	40CFR 60-A.7 (a)	75	Notification and Recordkeeping
U- 00001/00001/OIL/0094B	40CFR 60-A.7 (a)	108	Notification and Recordkeeping
U- 00001/00001/OIL/0094A	40CFR 60-A.7 (b)	76	Notification and Recordkeeping
U- 00001/00001/OIL/0094B	40CFR 60-A.7 (b)	109	Notification and Recordkeeping
U- 00001/00001/OIL/0094A	40CFR 60-A.7 (c)	77	Notification and Recordkeeping
U- 00001/00001/OIL/0094B	40CFR 60-A.7 (c)	110	Notification and Recordkeeping
U- 00001/00001/OIL/0094A	40CFR 60-A.7 (d)	78	Notification and Recordkeeping
U- 00001/00001/OIL/0094B	40CFR 60-A.7 (d)	111	Notification and Recordkeeping
U- 00001/00001/OIL/0094A	40CFR 60-A.7 (f)	79	Notification and Recordkeeping
U- 00001/00001/OIL/0094B	40CFR 60-A.7 (f)	112	Notification and Recordkeeping
FACILITY	40CFR 60-A.8	40	General provisions - Performance tests
U- 00001/00001/OIL/0094A	40CFR 60-A.8 (a)	80	Performance Tests
U- 00001/00001/OIL/0094B	40CFR 60-A.8 (a)	113	Performance Tests
U- 00001/00001/OIL/0094A	40CFR 60-A.8 (b)	81	Performance Tests
U- 00001/00001/OIL/0094B	40CFR 60-A.8 (b)	114	Performance Tests
U- 00001/00001/OIL/0094A	40CFR 60-A.8 (c)	82	Performance Tests
U- 00001/00001/OIL/0094B	40CFR 60-A.8 (c)	115	Performance Tests
U- 00001/00001/OIL/0094A	40CFR 60-A.8 (d)	83	Performance Tests
U- 00001/00001/OIL/0094B	40CFR 60-A.8 (d)	116	Performance Tests
U- 00001/00001/OIL/0094A	40CFR 60-A.8 (e)	84	Performance Tests
U- 00001/00001/OIL/0094B	40CFR 60-A.8 (e)	117	Performance Tests
U- 00001/00001/OIL/0094A	40CFR 60-A.8 (f)	85	Performance Tests
U- 00001/00001/OIL/0094B	40CFR 60-A.8 (f)	118	Performance Tests
U- 00001/00001/OIL/0094A	40CFR 60-A.9	86	General provisions - Availability of information
U- 00001/00001/OIL/0094B	40CFR 60-A.9	119	General provisions - Availability of information
U- 00001/00001/OIL/0094A	40CFR 60-Dc.40c	93, 94	Steam generators 10- 100 million Btu per hour
U-	40CFR 60-Dc.40c	126, 127	Steam generators 10-



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00001/00001/OIL/0094B			100 million Btu per hour
U-00001/00001/OIL/0094A	40CFR 60-Dc.42c (d)	95	Standard for Sulfur Dioxide Firing Oil. (see narrative)
U-00001/00001/OIL/0094B	40CFR 60-Dc.42c (d)	128	Standard for Sulfur Dioxide Firing Oil. (see narrative)
U-00001/00001/OIL/0094A	40CFR 60-Dc.43c (c)	96	Standard for Opacity.
U-00001/00001/OIL/0094B	40CFR 60-Dc.43c (c)	129	Standard for Opacity.
U-00001/00001/OIL/0094A	40CFR 60-Dc.44c (h)	97	Alternative Compliance and Performance Test Methods and Procedures for Sulfur Dioxide.
U-00001/00001/OIL/0094B	40CFR 60-Dc.44c (h)	130	Alternative Compliance and Performance Test Methods and Procedures for Sulfur Dioxide.
U-00001/00001/OIL/0094A	40CFR 60-Dc.46c (d) (2)	98	Alternative sulfur dioxide emissions monitoring.
U-00001/00001/OIL/0094B	40CFR 60-Dc.46c (d) (2)	131	Alternative sulfur dioxide emissions monitoring.
U-00001/00001/OIL/0094A	40CFR 60-Dc.47c	99	Emission Monitoring for Particulate Matter.
U-00001/00001/OIL/0094B	40CFR 60-Dc.47c	132	Emission Monitoring for Particulate Matter.
U-00001/00001/OIL/0094A	40CFR 60-Dc.48c (f) (1)	100	Reporting and Recordkeeping Requirements (distillate oil).
U-00001/00001/OIL/0094B	40CFR 60-Dc.48c (f) (1)	133	Reporting and Recordkeeping Requirements (distillate oil).
U-00001/00001/GAS/0094A	40CFR 60-Dc.48c (g)	54	Reporting and Recordkeeping Requirements.
U-00001/00001/GAS/0094B	40CFR 60-Dc.48c (g)	59	Reporting and Recordkeeping Requirements.
U-00001/00001/OIL/0094A	40CFR 60-Dc.48c (g)	101	Reporting and Recordkeeping Requirements.
U-00001/00001/OIL/0094B	40CFR 60-Dc.48c (g)	134	Reporting and Recordkeeping Requirements.
U-00001/00001/GAS/0094A	40CFR 60-Dc.48c (i)	55	Reporting and Recordkeeping Requirements.
U-00001/00001/GAS/0094B	40CFR 60-Dc.48c (i)	60	Reporting and Recordkeeping Requirements.
U-00001/00001/OIL/0094A	40CFR 60-Dc.48c (i)	102	Reporting and Recordkeeping



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U- 00001/00001/OIL/0094B	40CFR 60-Dc.48c(i)	135				Requirements. Reporting and Recordkeeping
U- 00002/00002/GEN/CDRP1	40CFR 60-IIII.4207(b)	1 42	-40, 1	-41, 1	-	Requirements. Stationary Compression Ignition IC Engines - Fuel Requirements beginning October 1, 2010
U- 00002/00002/GEN/CDRP1	40CFR 60-IIII.4209(a)	1	-43			Monitoring requirement - Emergency stationary CI-IC engine
U- 00002/00002/GEN/CDRP1	40CFR 60-IIII.4211(a)	1	-44			Stationary Compression Ignition Engines - Compliance Requirements
FACILITY	40CFR 60-IIII.4218	1	-31			Stationary Compression Ignition IC Engines - applicability of NSPS general provisions
FACILITY	40CFR 63-ZZZZ	1	-15			Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 63-ZZZZ.6585	1	-32			Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 63-ZZZZ.6603(a)	1	-33			- Applicability Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 63-ZZZZ.6625(e)	1	-34			- requirements for existing engines at area sources of HAP emissions
FACILITY	40CFR 63-ZZZZ.6640(f)	1 37	-35, 1	-36, 1	-	Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 63-ZZZZ.6665	1	-38			- emergency engines Reciprocating Internal Combustion Engine (RICE) NESHAP
FACILITY	40CFR 68	21				- General provisions Chemical accident prevention provisions
U- 00002/00003/GEN/CDRP2	40CFR 80-I.510(b)	1	-45			Motor vehicle diesel fuel: non road, locomotive and marine diesel fuel
FACILITY	40CFR 82-F	22				Protection of Stratospheric Ozone - recycling and emissions reduction
FACILITY	6NYCRR 200.6	1				Acceptable ambient air quality.
FACILITY	6NYCRR 200.7	10				Maintenance of



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FACILITY	6NYCRR 201-1.4	1	-46	equipment. Unavoidable noncompliance and violations
FACILITY	6NYCRR 201-1.7	1	-6	Recycling and Salvage
FACILITY	6NYCRR 201-1.8	12		Prohibition of reintroduction of collected contaminants to the air
FACILITY	6NYCRR 201-3.2 (a)	1	-7	Exempt Activities - Proof of eligibility
U- 00002/00002/GEN/CDRP1	6NYCRR 201-3.2 (c)	1	-39	Exempt Activities - exempt activity list
FACILITY	6NYCRR 201-3.3 (a)	1	-8	Trivial Activities - proof of eligibility
FACILITY	6NYCRR 201-6	23, 41, 42		Title V Permits and the Associated Permit Conditions
FACILITY	6NYCRR 201-6.4 (a) (4)	1	-9	General Conditions - Requirement to Provide Information
FACILITY	6NYCRR 201-6.4 (a) (7)	1	-1	General Conditions - Fees
FACILITY	6NYCRR 201-6.4 (a) (8)	1	-10	General Conditions - Right to Inspect
FACILITY	6NYCRR 201-6.4 (c)	1	-2	Recordkeeping and Reporting of Compliance Monitoring
FACILITY	6NYCRR 201-6.4 (c) (2)	1	-3	Records of Monitoring, Sampling and Measurement
FACILITY	6NYCRR 201- 6.4 (c) (3) (ii)	1	-4	Reporting Requirements - Deviations and Noncompliance
FACILITY	6NYCRR 201-6.4 (d) (4)	1	-12	Compliance Schedules - Progress Reports
FACILITY	6NYCRR 201-6.4 (e)	1	-5	Compliance Certification
FACILITY	6NYCRR 201-6.4 (f) (6)	1	-11	Off Permit Changes
FACILITY	6NYCRR 201-6.4 (g)	1	-13	Permit Shield
FACILITY	6NYCRR 201-6.5 (c)	1	-14	Emergency Defense Provision
FACILITY	6NYCRR 201-6.5 (g)	25		Permit shield
FACILITY	6NYCRR 201-7	26, 29, 43, 44, 1	-	Federally Enforceable
		15, 1	-16, 1 -17, 1	Emissions Caps
			-18	
FACILITY	6NYCRR 202-1.1	19		Required emissions tests.
FACILITY	6NYCRR 202-2	29, 1	-17, 1 -18	Emission Statements
FACILITY	6NYCRR 202-2.1	6		Emission Statements - Applicability
FACILITY	6NYCRR 202-2.5	7		Emission Statements - record keeping requirements.
FACILITY	6NYCRR 211.1	1	-19	General Prohibitions - air pollution prohibited
FACILITY	6NYCRR 211.2	154, 1	-47	General Prohibitions - visible emissions limited.
FACILITY	6NYCRR 211.3	20		General Prohibitions - visible emissions



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FACILITY	6NYCRR 215	8	limited
FACILITY	6NYCRR 215.2	9	Open Fires
FACILITY	6NYCRR 225.7 (a)	35	Open Fires - Prohibitions
FACILITY	6NYCRR 225-1.2 (b)	1 -20	Reports, Sampling and Analysis
FACILITY	6NYCRR 225-1.2 (f)	1 -21	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.2 (g)	1 -22	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.2 (h)	1 -23	Sulfur-in-Fuel Limitations
FACILITY	6NYCRR 225-1.6	1 -24	Reports, Sampling, and Analysis
U-00001/00001/OIL	6NYCRR 227.2 (b) (1)	63	Particulate emissions.
U-00002/00002/G01/CDRP1	6NYCRR 227.2 (b) (1)	139	Particulate emissions.
U-00002/00003/G02/CDRP2	6NYCRR 227.2 (b) (1)	143	Particulate emissions.
U-00002/00004/G34/CDRP3	6NYCRR 227.2 (b) (1)	147	Particulate emissions.
U-00002/00005/G34/CDRP4	6NYCRR 227.2 (b) (1)	151	Particulate emissions.
FACILITY	6NYCRR 227-1.3	36	Smoke Emission Limitations.
U-00001/00001/OIL	6NYCRR 227-1.3	61	Smoke Emission Limitations.
U-00002/00002/G01/CDRP1	6NYCRR 227-1.3	136	Smoke Emission Limitations.
U-00002/00003/G02/CDRP2	6NYCRR 227-1.3	140	Smoke Emission Limitations.
U-00002/00004/G34/CDRP3	6NYCRR 227-1.3	144	Smoke Emission Limitations.
U-00002/00005/G34/CDRP4	6NYCRR 227-1.3	148	Smoke Emission Limitations.
FACILITY	6NYCRR 227-1.3 (a)	37	Smoke Emission Limitations.
U-00001/00001/OIL	6NYCRR 227-1.3 (a)	62	Smoke Emission Limitations.
U-00002/00002/G01/CDRP1	6NYCRR 227-1.3 (a)	137	Smoke Emission Limitations.
U-00002/00003/G02/CDRP2	6NYCRR 227-1.3 (a)	141	Smoke Emission Limitations.
U-00002/00004/G34/CDRP3	6NYCRR 227-1.3 (a)	145	Smoke Emission Limitations.
U-00002/00005/G34/CDRP4	6NYCRR 227-1.3 (a)	149	Smoke Emission Limitations.
U-00001/00001/OIL/0094B	6NYCRR 227-2.4 (c)	103	Control Requirements for mid-sized boilers.
FACILITY	6NYCRR 227-2.4 (c) (1) (i)	1 -25	1994 NOx RACT presumptive limit.
FACILITY	6NYCRR 227-2.4 (c) (1) (ii)	1 -26	2010 NOx RACT presumptive limit.
FACILITY	6NYCRR 227-2.4 (d)	1 -27	Small boilers, small combustion turbines, and small stationary internal combustion engines.
FACILITY	6NYCRR 227-2.4 (f) (2) (ii)	38	Emission limitation for NOx for lean burn internal combustion



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U- 00002/00002/G01/CDRP1	6NYCRR 227- 2.4 (f) (2) (ii)	138	engines with compression ignition sources Emission limitation for NOx for lean burn internal combustion engines with compression ignition sources
U- 00002/00003/G02/CDRP2	6NYCRR 227- 2.4 (f) (2) (ii)	142	Emission limitation for NOx for lean burn internal combustion engines with compression ignition sources
U- 00002/00004/G34/CDRP3	6NYCRR 227- 2.4 (f) (2) (ii)	146	Emission limitation for NOx for lean burn internal combustion engines with compression ignition sources
U- 00002/00005/G34/CDRP4	6NYCRR 227- 2.4 (f) (2) (ii)	150	Emission limitation for NOx for lean burn internal combustion engines with compression ignition sources
FACILITY	6NYCRR 227-2.4 (f) (3)	1 -28, 1 -29	Emission limit for distillate oil fired engines.
FACILITY	6NYCRR 227-2.5 (a)	1 -30	Fuel switching option.
FACILITY	6NYCRR 227-2.5 (c)	39	Alternative emission limits
U- 00001/00001/GAS/0091A	6NYCRR 227-2.6 (a) (4)	46	Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c) (2) .
U- 00001/00001/GAS/0091B	6NYCRR 227-2.6 (a) (4)	49	Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c) (2) .
U- 00001/00001/GAS/0094A	6NYCRR 227-2.6 (a) (4)	52	Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c) (2) .
U- 00001/00001/GAS/0094B	6NYCRR 227-2.6 (a) (4)	57	Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c) (2) .
U- 00001/00001/OIL/0091A	6NYCRR 227-2.6 (a) (4)	65	Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c) (2) .



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U- 00001/00001/OIL/0091B	6NYCRR 227-2.6(a)(4)	68			Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c)(2).
U- 00001/00001/OIL/0094A	6NYCRR 227-2.6(a)(4)	71			Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c)(2).
U- 00001/00001/OIL/0094B	6NYCRR 227-2.6(a)(4)	104			Testing, monitoring and reporting for mid-size boilers which opt to meet the emission limits of 227-2.4(c)(2).
U- 00001/00001/OIL/0094B FACILITY	6NYCRR 227-2.6(c) 6NYCRR 231-2	105 29, 1	-16, 1	-17	Stack Test Requirements. New Source Review in Nonattainment Areas and Ozone Transport Region

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

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



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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 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



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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) (5)

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.

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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.

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.



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6 NYCRR Part 215

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.

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, ALBERT EINSTEIN COLLEGE OF MEDICINE has been determined to be subject to the following regulations:

40 CFR 52.21 (j)

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

40 CFR 60.11

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

40 CFR 60.12

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

40 CFR 60.13

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

40 CFR 60.13 (c)



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

40 CFR 60.14

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

40 CFR 60.15

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

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 60.40c

This regulation requires the source owner or operator to comply with the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

40 CFR 60.4207 (b)

These conditions states the fuel requirements for compression ignition stationary engines with a displacement of less than 30 liters per cylinder. The diesel fuel oil shall have a maximum aromatic content of 35 percent. The diesel fuel oil shall have a minimum centane index of 40 ratio. The diesel fuel oil shall have a maximum sulfur content of 15 parts per million by weight.

40 CFR 60.4209 (a)

The owner and/or operator of an emergency stationary compression ignition internal combustion engine subject to this subpart is required to install a non-resettable hour meter.

40 CFR 60.4211 (a)

This regulation states that the owner or operator and 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 60.4218



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This requirement is for Stationary Compression Ignition IC Engines - applicability of NSPS general provisions.

Table 8 of Subpart III shows which parts of the general provisions in 40 CFR 60.1-60.19 (Subpart A) apply to any facility that is subject to 40 CFR 60, Subpart III.

40 CFR 60.42c (d)

This regulation requires that on or after the date on which the initial performance test is completed or required to be completed under section 60.8 of 40 CFR 60 Subpart A, no owner or operator of an affected facility that combusts oil, shall combust oil with a sulfur content in excess of 0.5 percent by weight.

40 CFR 60.43c (c)

This regulation requires that on or after the date on which the initial performance test is completed or is required to be completed, an affected facility that combusts coal, wood, or oil and has a heat input of 30 million Btu per hour (8.7 MW) or greater, shall not cause any gases to be discharged to the atmosphere, that exhibit an opacity greater than 20% (based on a 6-minute average) or exceeds 27% for one 6-minute period per hour.

40 CFR 60.44c (h)

This regulation requires facilities demonstrating compliance through venter certification to follow the compliance procedures listed in the appropriate paragraphs of 40 CFR 60-Dc.48c.

40 CFR 60.46c (d) (2)

This regulation allows the owner or operator of an affected facility to determine the average sulfur dioxide emission rate by sampling the fuel prior to its combustion and calculating the emissions instead of installing and operating a continuous emissions monitor at the inlet of the control device

40 CFR 60.47c

This regulation requires that all continuous emissions monitors measuring opacity to be operated in accordance with Appendix B of this part 40 CFR 60.

40 CFR 60.48c (f) (1)

Fuel supplier certifications for distillate oil shall include the name of the oil supplier and a statement from the oil supplier that the oil complies with the specification under the definition of distillate oil in 40 CFR 60-Dc.41c

40 CFR 60.48c (g)

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

40 CFR 60.48c (i)



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This regulation requires the source owner or operator to retain all records for a minimum of two years for compliance with the NSPS. This does not supercede any requirement that is more stringent, including the Title V requirement to maintain records for for a minimum of 5 years.

40 CFR 60.7 (a)

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

40 CFR 60.7 (b)

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

40 CFR 60.7 (c)

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

40 CFR 60.7 (d)

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

40 CFR 60.7 (f)

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

40 CFR 60.8

This general provision of the New Source Performance Standards or NSPS, sets forth the performance test requirements for all NSPS applicable sources. Basically, all performance tests must be conducted within 60 days after achieving the maximum production rate but no later than 180 days after initial startup using procedures consistent with methods and procedures approved by the Administrator.

40 CFR 60.8 (a)

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



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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 (c)

This condition contains the requirements for operating conditions, of the emission source, during performance testing.

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

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 63.6585

This condition details what criteria are used to determine if a reciprocating internal combustion engine is subject to the provisions of this NESHAP rule. If the engine is meets the rule's definition of reciprocating internal combustion engine, and is located at a facility that emits at least 10 tons of a single hazardous air pollutant or 25 tons of all hazardous air pollutants, then the engine will need to meet the provisions in this rule.

40 CFR 63.6603 (a)

These conditions list the emission limits, operating limits, and work practices that existing engines located at an area source of HAP emissions must meet.

The engines must meet work practices, emission limits, and operating limits on carbon monoxide or formaldehyde for the specific type of engine listed in table 2d of subpart ZZZZ.

40 CFR 63.6625 (e)

This regulation requires the owners or operator of an existing stationary RICE with a site rating of less than 100 brake HP located at a major source of HAP emissions, an existing stationary emergency RICE, or an existing stationary RICE located at an area source of HAP emissions must operate and maintain



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the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop their own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions.

40 CFR 63.6640 (f)

This condition states the operation requirements for emergency engines.

40 CFR 63.6665

This regulation specifies which provisions of the General provisions (Subpart A of 40 CFR 63) apply to the owner or operators of stationary internal combustion engines at facilities with emissions of hazardous air pollutants.

40 CFR 80.510 (b)

This regulation sets forth the limits for Sulfur content for non road and locomotive marine diesel fuel.

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.

40 CFR Part 60, Subpart A

This regulation contains the General Provisions of 40 CFR 60. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements

40 CFR Part 63, Subpart ZZZZ

This requirement is for internal combustion engines, constructed or re-constructed on or after June 12, 2006, that meet the requirements of 40 CFR 60 Subpart IIII or Subpart JJJJ meet the requirements of 40 CFR 63 Subpart ZZZZ.

Facilities that have reciprocating internal combustion engines must comply with applicable portions of 40 CFR 63 subpart ZZZZ.



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6 NYCRR 201-3.2 (c)

This section lists the specific activities which may be exempt from the permitting provisions of this Part.

6 NYCRR 201-6.4 (a) (4)

This mandatory requirement applies to all Title V facilities. It requires the permittee to provide any 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 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 applies to all facilities subject to Title V requirements and 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 (d) (4)

This condition applies to every Title V facility subject to a compliance schedule. It requires that reports,



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detailing the status of progress on achieving compliance with emission standards, be submitted semiannually.

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 201-6.5 (c)

This requirement defines the Emergency Defense Provision:

Each title V facility permit shall contain a condition that requires reporting of noncompliance due to an emergency. In the event that emissions of contaminants in excess of any emission standard of this Chapter occur due to an emergency (as defined in this Part), the facility owner or operator shall report such event to the department's representative as soon as possible during normal working hours, but in any case not later than two working days after the event occurs. The report must describe the emergency, any steps taken to mitigate emissions, and the corrective actions taken. Facilities desiring an affirmative defense for non-compliance with any applicable requirement due to an emergency shall follow the requirements established under the general provisions in this Part.

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 225.7 (a)

The commissioner may require an owner of an air contamination source to retain for up to three years, and to submit to him, fuel analyses, information on the quantity of fuel received, burned or sold, and results of stack sampling, stack monitoring and other procedures to ensure compliance with the provisions of the Part. **NOTE: This citation has been replaced by requirements cited under 225-1.8(a) and is no longer a part of current State regulations, however, it remains as part of New York State's approved State Implementation Plan (SIP).**



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6 NYCRR 225-1.2 (b)

Sulfur-in-fuel limitations for oil or solid fuel fired facilities effective through June 30, 2014.

6 NYCRR 225-1.2 (f)

Sulfur-in-fuel limitations for the purchase of #2 heating oil on or after July 1, 2012.

6 NYCRR 225-1.2 (g)

Sulfur-in-fuel limitations for the purchase of distillate oil on or after July 1, 2014.

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.

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 227-2.4 (c)

To comply with this Subpart, emission requirements for mid-size boilers (boilers with a heat input between 50 and 100 mmBtu/hr), owners or operators of a mid-size boiler must meet the requirements of either paragraph (1) or (2) of this subdivision.



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6 NYCRR 227-2.4 (c) (1) (i)

Existing NO_x RACT presumptive limit that expires on 6/30/14.

6 NYCRR 227-2.4 (c) (1) (ii)

Future NO_x RACT presumptive limit effective 7/1/14.

6 NYCRR 227-2.4 (d)

This section includes NO_x RACT requirements for small boilers, small combustion turbines, and small stationary internal combustion engines.

6 NYCRR 227-2.4 (f) (2) (ii)

This regulation sets the NO_x emission limit for lean burn engines that provide electrical generation for peak shaving. The limit, which applies to engines listed at 225 horsepower for those in the severe ozone non-attainment area and 400 horsepower for the rest of the state, is 2.3 grams of NO_x per brake horsepower-hour, effective April 1, 2005.

6 NYCRR 227-2.4 (f) (3)

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

6 NYCRR 227-2.5 (a)

Fuel switching NO_x RACT compliance option.

6 NYCRR 227-2.5 (c)

This regulation provides alternative emission limits. For those sources for which the owner or operator demonstrates that the applicable presumptive RACT emission limit of 2.3 grams per brake horsepower-hour in section 227-2.4 of this Subpart is not economically or technically feasible, the owner or operator can request the Department to set a higher source specific emission limit. Economic or technical feasibility must include, but is not limited to, the evaluation of fuel switching, selective catalytic reduction



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or system averaging as compliance options. This alternative RACT emission limit must be approved by the Department and by the Administrator as a revision to the State Implementation Plan.

6 NYCRR 227-2.6 (a) (4)

This regulation is a SIP regulation. This citation is for testing, monitoring, and reporting requirements for mid-size boilers which opt to meet the emission limits of 227-2.4(c)(2). The owner or operator of mid-size boilers opting to meet the limits in 6 NYCRR 227-2.4(c)(2) is required to perform compliance stack tests as described in 6 NYCRR 227-2.6(c).

6 NYCRR 227-2.6 (c)

This regulation is a SIP regulation. This citation is for stack test requirements. The owner or operator of the facility is required to test for NOx emission and follow monitoring and reporting requirements. The stack testing for NOx emission requires the facility to:

- (1) Submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and
- (2) Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate NOx limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title.
 - (i) For large and mid-size boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
 - (ii) For simple cycle combustion turbines, utilize Method 20 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
 - (iii) For combined cycle combustion turbines, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
 - (iv) For internal combustion engines, utilize Method 7, 7E or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.

6 NYCRR Subpart 201-7

This regulation sets forth an emission cap that cannot be exceeded by the facility. In this permit the NOx cap is 135 TPY and the SO2 cap is 140 TPY.

6 NYCRR Subpart 202-2

This subpart of Part 202 sets forth the general requirements for submitting an annual statement or emissions.

6 NYCRR Subpart 231-2



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

Non Applicability Analysis

List of non-applicable rules and regulations:

Location Facility/EU/EP/Process/ES	Regulation	Short Description
FACILITY	40 CFR Part 60, Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines

Reason: All four emergency generators (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4) were built in 2005 or before, and therefore; 40 CFR Part 60, Subpart IIII is not applicable. Emission Sources CDRP1 & CDRP2 are 1984 model, and Emission Sources CDRP3 & CDRP4 are 2005 model. All 4 generators are large stationary internal combustion, lean burn, and compression ignition.

The facility intends to participate four (4) emergency generators in the Coordinated Demand Response Program (CDRP). The four generators include one 900 KW CAT D399 generator in the Chanin Building (Emission Source CDRP1), one 1,000 KW CAT 3512 generator in the Ullman Building (Emission Source CDRP2), and two identical 1,750 KW CAT 3516 each generators in the Price Center (Emission Sources CDRP3 & CDRP4). These generators will be used in the CDRP program such that the total Oxides of Nitrogen (NOx) emissions from the generators will remain below 22.5 tpy for any 12-month rolling period. The NOx emissions will be calculated based on the May 13 & 14, 2009 stack test results. All four generators were built in 2005 or before, and therefore; 40 CFR Part 60, Subpart IIII is not applicable.

FACILITY	40 CFR 63.6603 (a)	Reciprocating Internal Combustion Engine (RICE) NESHAP - requirements for existing engines at area sources of HAP emissions
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Reason: The MACT regulation 40 CFR 63.6603(a), Subpart ZZZZ for emergency RICE operation is not applicable to this facility because the facility is limiting the annual operating hours to under 100 hours.



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Also, the CO reduction by 70% regulation and related stack testing regulations do not apply to the four CDRP generator engines.

The following is not applicable to this facility because the facility is limiting the annual operating hours to under 100 hours.

(a) The owner or operator of an existing non-emergency, non-black start compression ignition stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions must either limit the concentration of CO or reduce CO emissions.

Emissions of CO must be reduced by 70% or more based on the average of three 1-hour runs.

The facility must also meet the applicable operating limits listed in table 2b of subpart ZZZZ.

Initial compliance will be demonstrated according to the provisions in 40 CFR 63.6630.

Subsequent performance tests will be required as specified in 40 CFR 63.6615, which requires performance tests to be conducted according to the provisions in 40 CFR 63.6620 every 8760 hours or 3 years, whichever comes first.

Continuous compliance will then be demonstrated according to 40 CFR 63.6640. The facility must keep records according to the provisions in 40 CFR 63.6655 and submit the notifications and reports listed in 40 CFR 63.6645 and 63.6650.

FACILITY	40 CFR 63.6640	Reciprocating Internal Combustion Engine (RICE) NESHAP - Compliance Requirements
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Reason: The MACT regulation 40 CFR 63.6640(f)(1), Subpart ZZZZ for emergency RICE operation is not applicable to this facility because the facility is limiting the annual operating hours to under 100 hours.

Also, the CO reduction by 70% regulation and related stack testing regulations do not apply to the four CDRP generator engines.

(ii) The facility may operate the emergency stationary RICE for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year. The owner or operator may petition the EPA Administrator for approval of additional hours to be used for maintenance checks and readiness testing, but a petition is not required



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if the owner or operator maintains records indicating that Federal, State, or local standards require maintenance and testing of emergency RICE beyond 100 hours per year.

FACILITY	40 CFR 89.112	Oxides of nitrogen, carbon monoxide, hydrocarbon, and particulate matter exhaust emission standards
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Reason: 40 CFR 89.112, Subpart B is not applicable to the four engine generators, identified as Emission Sources CDRP1, CDRP2, CDRP3 and CDRP4, that will be participating in the CDRP (Coordinated Demand Reduction Program), emergencies, and stack testing because they are turbocharged (not naturally aspired).

A turbocharged engine can be more powerful and efficient than a naturally aspirated engine because the turbine forces more air, and proportionately more fuel, into the combustion chamber than atmospheric pressure alone.

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 ALBERT EINSTEIN COLLEGE OF MEDICINE:

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

U-00001/00001/OIL/0094A	90	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	123	record keeping/maintenance procedures
U-00001/00001/OIL/0094A	77	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	110	record keeping/maintenance procedures
FACILITY	40	record keeping/maintenance procedures
U-00001/00001/OIL/0094A	93	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094A	94	record keeping/maintenance procedures



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U-00001/00001/OIL/0094B	126	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094B	127	record keeping/maintenance procedures
U-00001/00001/OIL/0094A	95	work practice involving specific operations
U-00001/00001/OIL/0094B	128	work practice involving specific operations
U-00001/00001/OIL/0094A	96	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094B	129	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094A	97	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094B	130	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094A	98	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094B	131	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094A	99	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094B	132	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094A	100	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	133	record keeping/maintenance procedures
U-00001/00001/GAS/0094A	54	record keeping/maintenance procedures
U-00001/00001/GAS/0094B	59	record keeping/maintenance procedures
U-00001/00001/OIL/0094A	101	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	134	record keeping/maintenance procedures
U-00001/00001/GAS/0094A	55	record keeping/maintenance procedures
U-00001/00001/GAS/0094B	60	record keeping/maintenance procedures
U-00001/00001/OIL/0094A	102	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	135	record keeping/maintenance procedures
U-00002/00002/GEN/CDRP1	1-40	work practice involving specific operations
U-00002/00002/GEN/CDRP1	1-41	work practice involving specific operations
U-00002/00002/GEN/CDRP1	1-42	work practice involving specific operations
U-00002/00002/GEN/CDRP1	1-43	record keeping/maintenance procedures
U-00002/00002/GEN/CDRP1	1-44	record keeping/maintenance procedures
FACILITY	1-32	record keeping/maintenance procedures
FACILITY	1-33	record keeping/maintenance procedures
FACILITY	1-34	record keeping/maintenance procedures
FACILITY	1-35	record keeping/maintenance procedures
FACILITY	1-36	record keeping/maintenance procedures
FACILITY	1-37	record keeping/maintenance procedures
FACILITY	1-38	record keeping/maintenance procedures
U-00002/00003/GEN/CDRP2	1-45	monitoring of process or control device parameters as surrogate
U-00002/00002/GEN/CDRP1	1-39	work practice involving specific operations
FACILITY	1-4	record keeping/maintenance procedures
FACILITY	1-5	record keeping/maintenance procedures
FACILITY	1-14	record keeping/maintenance procedures
FACILITY	1-15	monitoring of process or control device parameters as surrogate
FACILITY	1-16	monitoring of process or control device parameters as surrogate
FACILITY	1-17	monitoring of process or control device parameters as surrogate
FACILITY	1-18	monitoring of process or control device parameters as surrogate
FACILITY	29	monitoring of process or control device parameters as surrogate
FACILITY	6	record keeping/maintenance procedures
FACILITY	35	record keeping/maintenance procedures
FACILITY	1-20	work practice involving specific operations
FACILITY	1-21	work practice involving specific operations
FACILITY	1-22	work practice involving specific operations



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FACILITY	1-23	work practice involving specific operations
FACILITY	1-24	record keeping/maintenance procedures
U-00001/00001/OIL	63	intermittent emission testing
U-00002/00002/G01/CDRP1	139	intermittent emission testing
U-00002/00003/G02/CDRP2	143	intermittent emission testing
U-00002/00004/G34/CDRP3	147	intermittent emission testing
U-00002/00005/G34/CDRP4	151	intermittent emission testing
FACILITY	36	record keeping/maintenance procedures
U-00001/00001/OIL	61	record keeping/maintenance procedures
U-00002/00002/G01/CDRP1	136	record keeping/maintenance procedures
U-00002/00003/G02/CDRP2	140	record keeping/maintenance procedures
U-00002/00004/G34/CDRP3	144	record keeping/maintenance procedures
U-00002/00005/G34/CDRP4	148	record keeping/maintenance procedures
FACILITY	37	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL	62	monitoring of process or control device parameters as surrogate
U-00002/00002/G01/CDRP1	137	monitoring of process or control device parameters as surrogate
U-00002/00003/G02/CDRP2	141	monitoring of process or control device parameters as surrogate
U-00002/00004/G34/CDRP3	145	monitoring of process or control device parameters as surrogate
U-00002/00005/G34/CDRP4	149	monitoring of process or control device parameters as surrogate
U-00001/00001/OIL/0094B	103	monitoring of process or control device parameters as surrogate
FACILITY	1-25	intermittent emission testing
FACILITY	1-26	intermittent emission testing
FACILITY	1-27	record keeping/maintenance procedures
FACILITY	38	record keeping/maintenance procedures
U-00002/00002/G01/CDRP1	138	intermittent emission testing
U-00002/00003/G02/CDRP2	142	intermittent emission testing
U-00002/00004/G34/CDRP3	146	intermittent emission testing
U-00002/00005/G34/CDRP4	150	intermittent emission testing
FACILITY	1-28	intermittent emission testing
FACILITY	1-29	intermittent emission testing
FACILITY	1-30	intermittent emission testing
FACILITY	39	record keeping/maintenance procedures
U-00001/00001/GAS/0091A	46	record keeping/maintenance procedures
U-00001/00001/GAS/0091B	49	record keeping/maintenance procedures
U-00001/00001/GAS/0094A	52	record keeping/maintenance procedures
U-00001/00001/GAS/0094B	57	record keeping/maintenance procedures
U-00001/00001/OIL/0091A	65	record keeping/maintenance procedures
U-00001/00001/OIL/0091B	68	record keeping/maintenance procedures
U-00001/00001/OIL/0094A	71	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	104	record keeping/maintenance procedures
U-00001/00001/OIL/0094B	105	intermittent emission testing

Basis for Monitoring

This facility is subject to the requirements of Title V and has received a Title V general permit for Combustion Installation. The facility is required, under the provisions of 6 NYCRR Subpart 201-6, to submit quarterly, semiannual compliance reports and an annual Compliance Certification. This facility has to comply with the following monitoring conditions:

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Condition #1-15 for 6 NYCRR 201-7, Capping Out of 40 CFR Part 63, Subpart ZZZZ for Oxides of Nitrogen: The facility is capping the maximum annual operating hours to under 100 hours. Therefore, the CO reduction by 70% conditions and related stack testing conditions are eliminated for all four CDRP engines (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4). Subpart ZZZZ's maintenance conditions only apply.

The facility will operate and monitor these generators/engines in the CDRP such that the total operating hours per engine will not exceed the maximum operating hours of 100 hrs/yr. By this capping (of 100 hrs/yr per engine), the engines will NOT be required to reduce Carbon Monoxide emissions and CO reduction systems are NOT required to be installed. Other Subpart ZZZZ related maintenance requirements will be performed (oil change, filters, tune-up, etc.)

Condition # 1-16 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 231-2 for Oxides of Nitrogen: The facility is currently using three (3) of its emergency generators into NYISO's coordinated demand response program (CDRP), and plans to use a fourth generator (Emission Source CDRP1) into the CDRP after a NO_x variance is sought and approved.

These CDRP generators will be operated and monitored such that the total oxides of nitrogen (NO_x) emissions will remain under 22.5 TPY. The emissions factors will be based on stack test values conducted on May 13-14, 2009 for three generators only (Emission Sources CDRP2, CDRP3 & CDRP4). Currently, it is anticipated that a total of 178,500 gallons per year of diesel fuel will be used to remain under 22.5 tpy of NO_x.

All three generators are permitted under the Title V permit and have been granted NO_x RACT variance. These generators will continue to be operated based on the variance granted (7.5 g/bhp-hr for CDRP2, 4.5 g/bhp-hr for CDRP3 & CDRP4). Thus, comply with the NO_x RACT requirements. CDRP1 is 900 KW, CDRP2 is 1000 KW, and each of CDRP3 & CDRP4 is 1750 KW.

The owner or operator shall maintain a record of the quantity of each fuel fired in each of the CDRP generators at the facility. Also, the owner or operator shall calculate the annual NO_x emissions (based on the fuel quantity) using the approved emission factors from the most recent stack test.

The NO_x (oxides of nitrogen) emissions are capped at 22.5 tons per year on a rolling 12-month basis.

Condition 1-17 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 202-2 and 6 NYCRR 231-2 for Oxides of Nitrogen: This is a condition that applies to the four mid-



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size boilers, the two 91 MM Btu/hr each Keeler boilers (Emission Sources 0091A & 0091B) and the two 94 MM Btu/hr each Babcock & Wilcox boilers (Emission Sources 0094A & 0094B). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen. The four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) will fire natural gas (Process GAS) and #6 fuel oil (Process OL6) or #2 fuel oil (Process OL2) in a combination such that the total oxides of nitrogen (NO_x) emissions will remain under the 135 TPY. In order to accomplish the stringent new source review conditions, the facility will cap the Oxides of Nitrogen emissions at 135 tons per year. The maximum #6 fuel oil or #2 fuel oil that can be used is 5.0 million gallons (if # 6 or #2 fuel oil is used alone), and the maximum natural gas that can be used is 2,469 million cubic feet (if natural gas is used alone).

This condition specifies how a source owner or operator may opt to avoid being subject to one or more applicable requirements to which the source or unit would have otherwise been subject, or where needed to establish an emission reduction credit by accepting federally-enforceable permit conditions restricting or capping emissions.

The facility proposes to cap the total NO_x emissions at 135 tpy as well as the new NO_x RACT limits of 0.20 lbs/MM Btu (effective July 1, 2014) for the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B).

The facility will use the emission factors from the latest stack test conducted (December 17-21, 2009) on the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) operating on natural gas and #6 fuel oil.

Condition 1-18 for 6 NYCRR 201-7, Capping out of 6 NYCRR 202-2 and 40 CFR 52.21 (j) for Sulfur Dioxide: This is a condition that applies to the four mid-size boilers, the two 91 MM Btu/hr each Keeler boilers (Emission Sources 0091A & 0091B) and the two 94 MM Btu/hr each Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) operating on natural gas (Process GAS) and #6 fuel oil (Process OL6) or #2 fuel oil (Process OL2) in a combination such that the total sulfur dioxide (SO₂) emissions will remain under the 140 TPY. This condition is for monitoring the amount of #6 fuel oil or #2 fuel oil for Sulfur Dioxide. The Sulfur Dioxide emission is limited to an annual maximum of 140 tons per year, and it is to be monitored on a monthly basis and rolled into the annual maximum calculations.

This condition specifies how a source owner or operator may opt to avoid being subject to one or more applicable requirements to which the source or unit would have otherwise been subject, or where needed to establish an emission reduction credit by accepting federally-enforceable permit conditions restricting or capping emissions.



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The facility proposes to cap the emission of the Sulfur Dioxide for the two 91 MM Btu/hr Keeler boilers (Emission Sources 0091A & 0091B) and the two 94 MM Btu/hr Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) to 140 tons per year. In order to accomplish the stringent PSD conditions, the facility will cap the Sulfur Dioxide emissions at 140 tons per year. The four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) will fire natural gas (Process GAS) and #6 fuel oil (Process OL6) or #2 fuel oil (Process OL2) in a combination such that the total sulfur dioxide (SO₂) emissions will remain under the 140 TPY.

The maximum #6 fuel oil or #2 fuel oil that can be used is 5.0 million gallons (if # 6 or #2 fuel oil is used alone), and the maximum natural gas that can be used is 2,469 million cubic feet (if natural gas is used alone).

Condition 29 for 6 NYCRR 201-7, Capping Out of 6 NYCRR 201-2 and 6 NYCRR 231-2 for Oxides of Nitrogen: This is a condition that applies to the four Caterpillar generators, the 900 kilowatts 1984 Model year Caterpillar D399 (Emission Source CDRP1), the 1000 kilowatts 1984 model year Caterpillar/3512 (Emission Source CDRP2), the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP3), and the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP4). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen. The Oxides of Nitrogen emission is limited to an annual maximum of 22.5 tons per year, and it is to be monitored on a monthly basis and rolled into the annual maximum calculations.

This subpart specifies how a source owner or operator may opt to avoid being subject to one or more applicable requirements to which the source or unit would have otherwise been subject, or where needed to establish an emission reduction credit by accepting federally-enforceable permit conditions restricting or capping emissions.

The facility proposes to cap the emission of the Oxides of Nitrogen for the four CDRP generators (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4) to 22.5 tons per year. In order to accomplish the stringent new source review conditions, the facility will cap the Oxides of Nitrogen emissions at 22.5 tons per year.

Condition 1-20 for 6 NYCRR 225-1.2(b) for Sulfur Content: The distillate fuel oil (#2 heating oil) purchase is limited to 0.30 percent sulfur by weight effective through June 30, 2014. Compliance with this limit will be based on vendor certifications.

Condition 1-21 for 6 NYCRR 225-1.2(f) for Sulfur Content: The distillate fuel oil (#2 heating oil) purchase is limited to 0.0015 percent sulfur by weight on or after July 1, 2012. Compliance with this limit will be based on vendor certifications.



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Condition 1-22 for 6 NYCRR 225-1.2(g) for Sulfur Content: The distillate fuel oil (#2 heating oil) purchase is limited to 0.0015 percent sulfur by weight on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

Condition 1-23 for 6 NYCRR 225-1.2(h) for Sulfur Content: 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 1-24 for 6 NYCRR 225-1.6 for Sulfur Dioxide: This condition establishes the requirements for reporting, sampling, and analyzing the fuel oil that the facility receives, fires, sells or purchases.

Condition 37 for 6 NYCRR 227-1.3(a) for Opacity: This condition is a facility-wide condition for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. The opacity limit is 20% and is to be monitored daily.

Condition 1-25 for 6 NYCRR 227-2.4 (c) (1) (i) for Oxides of Nitrogen: This is a condition that applies to the four mid-size boilers, the two 91 MM Btu/hr each Keeler boilers (Emission Sources 0091A & 0091B) and the two 94 MM Btu/hr each Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) operating on natural gas (Process GAS) and #6 fuel oil (Process OL6) or #2 fuel oil (Process OL2). This condition is for Intermittent Emission Testing for Oxides of Nitrogen and a NO_x RACT emission limit of 0.30 pounds per million Btus prior to July 1, 2014.

Condition 1-26 for 6 NYCRR 227-2.4 (c) (1) (ii) for Oxides of Nitrogen: This is a condition that applies to the four mid-size boilers, the two 91 MM Btu/hr each Keeler boilers (Emission Sources 0091A & 0091B) and the two 94 MM Btu/hr each Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) operating on natural gas (Process GAS) and #6 fuel oil (Process OL6) or #2 fuel oil (Process OL2). This condition is for Intermittent Emission Testing for Oxides of Nitrogen and a NO_x RACT emission limit of 0.20 pounds per million Btus on or after July 1, 2014.

Condition 1-28 for 6 NYCRR 227-2.4 (f) (3) for Oxides of Nitrogen: This is a condition that applies to the two stationary internal combustion engines participating in the CRDP, Emission Sources CDRP3 and CDRP4. This condition is for approving the NO_x RACT Variance for Intermittent Emission Testing for the presumptive NO_x RACT emission limit of 4.5 grams per brake horsepower-hour for distillate oil fired stationary internal combustion engines.

Condition 1-29 for 6 NYCRR 227-2.4 (f) (3) for Oxides of Nitrogen: This is a condition that applies to the stationary internal combustion engine participating in the CRDP, Emission Source CDRP2. This condition is for approving the NO_x RACT

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Condition 1-30 for 6 NYCRR 227-2.5 (a) for Oxides of Nitrogen: This is a condition that applies to the four mid-size boilers, the two 91 MM Btu/hr each Keeler boilers (Emission Sources 0091A & 0091B) and the two 94 MM Btu/hr each Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) operating on natural gas (Process GAS) and #6 fuel oil (Process OL6) or #2 fuel oil (Process OL2). This condition is for Intermittent Emission Testing for Oxides of Nitrogen and a NO_x RACT emission limit of 0.20 pounds per million Btus on or after July 1, 2014. Due to the Fuel switching NO_x RACT compliance option, the NO_x RACT emission limit is 0.20 pounds per million Btus on or after July 1, 2014.

Condition 62 for 6 NYCRR 227-1.3(a) for Opacity: This condition is an emission unit level, emission point level and process level condition that applies to EU: U-00001, EP: 00001 and Proc: OIL. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. The opacity limit is 20% and is to be monitored daily.

Condition 63 for 6 NYCRR 227.2(b)(1) for Particulates: This condition is an emission unit level, emission point level and process level condition that applies to EU: U-00001, Emission Point: 00001 and Proc: OIL. This condition is for Intermittent Emission Testing for Particulates.

This condition is for Intermittent Emission Testing for Particulates for the four mid-size boilers, the two new Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) that are rated at 94 MM Btu/hr each, and the other two existing Keeler boilers (Emission Sources 0091A & 0091B) that are rated at 91 MM Btu/hr each. This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. This condition establishes a particulate limit of 0.10 pounds per million Btus based on a 2 hour average emission for the oil fired stationary combustion installation (previously referenced four boilers) and is required once during the term of the permit.

Condition 93 for 40 CFR 60.40c, NSPS Subpart Dc for Sulfur Dioxide: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094A (94 MM Btu/hr Babcock & Wilcox) boiler. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide for the sulfur content limit of 0.30 % by weight in #6 fuel oil (residual fuel oil).



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This condition requires the source owner or operator to comply with the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

Condition 95 for 40 CFR 60.42c(d), NSPS Subpart Dc for Sulfur Dioxide: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094A (94 MM Btu/hr Babcock & Wilcox) boiler. This condition is for Work Practice Involving Specific Operations for Sulfur Dioxide for the sulfur content of #6 fuel oil (residual oil).

This condition requires that on or after the date on which the initial performance test is completed or required to be completed under section 60.8 of 40 CFR 60 Subpart A, no owner or operator of an affected facility that combusts oil, shall combust oil with a sulfur content in excess of 0.5 percent by weight. However, the facility must comply with the 0.30 percent by weight sulfur content limit in the residual oil as per 6 NYCRR 225-1.2(a)(2) which has more stringent limit for New York City than 40 CFR 60-Dc.42c(d), NSPS.

Condition 96 for 40 CFR 60.43c(c), NSPS Subpart Dc for Opacity: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094A (94 MM Btu/hr Babcock & Wilcox). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for opacity. The opacity limit is 20 percent.

This condition requires that on or after the date on which the initial performance test is completed or is required to be completed, an affected facility that combusts coal, wood, or oil and has a heat input of 30 million Btu per hour (8.7 MW) or greater, shall not cause any gases to be discharged to the atmosphere, that exhibit an opacity greater than 20% (based on a 6-minute average) or exceeds 27% for one 6-minute period per hour.

Condition 97 for 40 CFR 60.44c(h), NSPS Subpart Dc for Sulfur Dioxide: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094A (94 MM Btu/hr Babcock & Wilcox) boiler. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The limit of sulfur content in residual oil is 0.30 percent by weight.



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This condition requires facilities demonstrating compliance through vender certification to follow the compliance procedures listed in the appropriate paragraphs of 40 CFR 60-Dc.48c.

40 CFR 60-Dc.42c(h), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superseded by regulation 6 NYCRR 225-1.2(a)(2), which limits the sulfur content in the residual oil to 0.30 percent by weight to facilities in the severe ozone non-attainment area such as New York City. However, the facility must comply with the 0.30 percent by weight sulfur content limit in the #6 fuel oil (residual fuel oil) as per 6 NYCRR 225-1.2(a)(2) which has more stringent limit for New York City than 40 CFR 60-Dc.44c(h), NSPS.

Condition 98 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc for Sulfur Dioxide: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094A (94 MM Btu/hr Babcock & Wilcox boiler). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The limit of sulfur content in #6 fuel oil (residual fuel oil) is 0.30 percent by weight.

This condition allows the owner of operator of an affected facility to determine the average sulfur dioxide emission rate by sampling the fuel prior to its combustion and calculating the emissions instead of installing and operating a continuous emissions monitor at the inlet of the control device.

40 CFR 60-Dc.46c(d)(2), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superseded by regulation 6 NYCRR 225-1.2(a)(2), which limits the sulfur content in the residual oil to 0.30 percent by weight to facilities in the severe ozone non-attainment area such as New York City. However, the facility must comply with the 0.30 percent by weight sulfur content limit in the residual oil as per 6 NYCRR 225-1.2(a)(2) which has more stringent limit for New York City than 40 CFR 60-Dc.44c(h), NSPS.

Condition 99 for 40 CFR 60.47c, NSPS Subpart Dc for Particulates: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094A (94 MM Btu/hr Babcock & Wilcox boiler). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for opacity. The opacity is to be monitored continuously and the limit is 27 percent.

This condition requires that all continuous emissions monitor measuring opacity to be operated in accordance with Appendix B of this part 40 CFR 60.



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Condition 103 for 6 NYCRR 227-2.4 (c) for Oxides of Nitrogen: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Oxides of Nitrogen for the 94 MM Btu/hr Babcock & Wilcox boiler. The NO_x RACT emission limit regulatory standard for mid-size boilers (maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour) firing residual oil is 0.30 pounds per million Btus.

To comply with this Subpart, emission requirements for mid-size boilers, owners or operators of a mid-size boiler must meet the requirements of either paragraph (1) or (2) of this subdivision.

This condition requires mid-size boilers (fuel combustion units with a maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour that produce steam or heats water or any other heat transfer medium) to meet the 0.30 pounds of NO_x per million Btus emission limit by May 31, 1985 when operating on residual oil. Compliance with this emission limit is determined with a 1-hour average in accordance with section 227-2.6(a)(4). If CEMs are used to determine compliance, the requirements of 227-2.6(b) apply, including the use of a 24-hour averaging period.

Condition 105 for 6 NYCRR 227-2.6 (c) for Oxides of Nitrogen: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B. This condition is for Intermittent Emission Testing for Oxides of Nitrogen for the 94 MM Btu/hr Babcock & Wilcox boiler. The NO_x RACT emission limit regulatory standard for mid-size boilers (maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour) firing residual oil is 0.30 pounds per million Btus.

This condition is a SIP condition. This condition is for stack test requirements. The owner or operator of the facility is required to conduct an emission test (stack test) to verify NO_x emissions and to demonstrate compliance with 6 NYCRR 227-2.6(a). The facility is required to follow monitoring and reporting requirements. The stack testing for NO_x emission requires the facility to:

1. Submit a compliance test protocol to the department for approval at least 90 days prior to emission testing. The condition of the testing and the locations of the sampling devices must be acceptable to the department; and
2. Utilize procedures set forth in 40 CFR Part 60, Appendix A or any other method acceptable to the department and EPA for determining compliance with the appropriate



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NO_x limit in section 227-2.4 of this Subpart, and shall follow the procedures set forth in Part 202 of this Title.

3. For large and mid-size boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department stationary internal combustion engines, utilize Method 7, 7E, or 19 from 40 CFR part 60, Appendix A or another reference method approved by the department.

4. Submit a compliance test report containing the results of the emission test to the department no later than 60 days after completion of the emission test.

Condition 126 for 40 CFR 60.40c, NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B (94 MM Btu/hr Babcock & Wilcox) boiler. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide for the sulfur content limit of 0.30 % by weight in #6 fuel oil (residual fuel oil).

This condition requires the source owner or operator to comply with the applicable General Provisions of 40 CFR 60 Subpart Dc. The facility owner is responsible for reviewing these general provisions in detail and complying with all applicable technical, administrative and reporting requirements.

Condition 128 for 40 CFR 60.42c(d), NSPS Subpart Dc: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B (94 MM Btu/hr Babcock & Wilcox) boiler. This condition is for Work Practice Involving Specific Operations for Sulfur Dioxide for the sulfur content of #6 fuel oil (residual oil).

This condition requires that on or after the date on which the initial performance test is completed or required to be completed under section 60.8 of 40 CFR 60 Subpart A, no owner or operator of an affected facility that combusts oil, shall combust oil with a sulfur content in excess of 0.5 percent by weight. However, the facility must comply with the 0.30 percent by weight sulfur content limit in the residual oil as per 6 NYCRR 225-1.2(a)(2) which has more stringent limit for New York City than 40 CFR 60-Dc.42c(d), NSPS.

Condition 129 for 40 CFR 60.43c(c), NSPS Subpart Dc for Opacity: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B (94 MM Btu/hr Babcock & Wilcox). This condition is for



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Monitoring of Process or Control Device Parameters as Surrogate for Particulates for opacity. The opacity limit is 20 percent.

This condition requires that on or after the date on which the initial performance test is completed or is required to be completed, an affected facility that combusts coal, wood, or oil and has a heat input of 30 million Btu per hour (8.7 MW) or greater, shall not cause any gases to be discharged to the atmosphere, that exhibit an opacity greater than 20% (based on a 6-minute average) or exceeds 27% for one 6-minute period per hour.

Condition 130 for 40 CFR 60.44c(h), NSPS Subpart Dc for Sulfur Dioxide: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B (94 MM Btu/hr Babcock & Wilcox) boiler. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The limit of sulfur content in residual oil is 0.30 percent by weight.

This condition requires facilities demonstrating compliance through vender certification to follow the compliance procedures listed in the appropriate paragraphs of 40 CFR 60-Dc.48c.

40 CFR 60-Dc.42c(h), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superseded by regulation 6 NYCRR 225-1.2(a)(2), which limits the sulfur content in the residual oil to 0.30 percent by weight to facilities in the severe ozone non-attainment area such as New York City. However, the facility must comply with the 0.30 percent by weight sulfur content limit in the #6 fuel oil (residual fuel oil) as per 6 NYCRR 225-1.2(a)(2) which has more stringent limit for New York City than 40 CFR 60-Dc.44c(h), NSPS.

Condition 131 for 40 CFR 60.46c(d)(2), NSPS Subpart Dc for Sulfur Dioxide: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B (94 MM Btu/hr Babcock & Wilcox boiler). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Sulfur Dioxide. The limit of sulfur content in #6 fuel oil (residual fuel oil) is 0.30 percent by weight.

This condition allows the owner or operator of an affected facility to determine the average sulfur dioxide emission rate by sampling the fuel prior to its combustion and calculating the emissions instead of installing and operating a continuous emissions monitor at the inlet of the control device.

40 CFR 60-Dc.46c(d)(2), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superseded by regulation 6 NYCRR 225-1.2(a)(2), which limits the sulfur



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content in the residual oil to 0.30 percent by weight to facilities in the severe ozone non-attainment area such as New York City. However, the facility must comply with the 0.30 percent by weight sulfur content limit in the residual oil as per 6 NYCRR 225-1.2(a)(2) which has more stringent limit for New York City than 40 CFR 60-Dc.44c(h), NSPS.

Condition 132 for 40 CFR 60.47c, NSPS Subpart Dc for Particulates: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00001, Emission Point: 00001, Process: OIL, and Emission Source: 0094B (94 MM Btu/hr Babcock & Wilcox boiler). This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for opacity. The opacity is to be monitored continuously and the limit is 27 percent.

This condition requires that all continuous emissions monitor measuring opacity to be operated in accordance with Appendix B of this part 40 CFR 60.

Condition 137 for 6 NYCRR 227-1.3(a) for Opacity: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, EP: 00002, Proc: G01, ES: CDRP1. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. The opacity limit is 20% and is to be monitored daily. This condition applies to the 1984 model year Caterpillar D399 generator (Emission Source CDRP1).

Condition 138 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00002, Process: G01 and Emission Source CDRP1. This condition is for Intermittent Emission Testing for Oxides of Nitrogen for the 1984 model year Caterpillar D399 generator (Emission Source CDRP1).

This condition sets the NO_x emission limit for lean burn engines that provide electrical generation for peak shaving. The limit, which applies to engines listed at 225 horsepower for those in the severe ozone non-attainment area and 400 horsepower for the rest of the state, is 2.3 grams of NO_x per brake horsepower-hour, effective April 1, 2005.

Conditions 139 for 6 NYCRR 227.2(b)(1) for Particulates: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00002, Process: G01 and Emission Source CDRP1. This condition is for Intermittent Emission Testing for Particulates.

This condition is for Intermittent Emission Testing for Particulates for the 1984 model year Caterpillar D399 generator (Emission Source CDRP1) that is rated at 900 kilowatts. This regulation is from the 1972 version of Part 227 and still remains as part of New



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York's SIP. This condition establishes a particulate limit of 0.10 pounds per million Btus based on a 2 hour average emission for the oil fired stationary combustion installation (previously referenced four boilers) and is required once during the term of the permit.

Conditions 1-39 for 6 NYCRR 201-3.2 (c) for Oxides of Nitrogen: This is a condition that applies to the 900 kilowatts 1984 Model year Caterpillar D399 Caterpillar generator (Emission Source CDRP1) for a maximum operating hours of 500. This condition lists the specific activities which may be exempt from the permitting provisions of this Part.

The 900 KW diesel fuel emergency generator (Emission Source CDRP1) is exempt from NYSDEC permitting in accordance with 6 NYCRR 201-3.1(b) and 3.2(c)(6).

Emergency power generating stationary internal combustion engines as defined in 200.1(cq) and engine test cells at engine manufacturing facilities that are utilized for research and development, reliability performance testing, or quality assurance performance testing.

Emergency power generating stationary internal combustion engine. A stationary internal combustion engine that operates as a mechanical or electrical power source only when the usual supply of power is unavailable, and operates for no more than 500 hours per year. The 500 hours of annual operation for the engine include operation during emergency situations, routine maintenance, and routine exercising (for example, test firing the engine for one hour a week to ensure reliability). A stationary internal combustion engine used for peak shaving generation is not an emergency power generating stationary internal combustion engine.

Conditions 1-40 for 40 CFR 60.4207 (b), NSPS Subpart III for Aromatic Content: This is a condition that applies to the three CDRP Caterpillar generators, the 1000 kilowatts 1984 model year Caterpillar/3512 (Emission Source CDRP2), the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP3), and the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP4).

This condition states the fuel requirements for compression ignition stationary engines with a displacement of less than 30 liters per cylinder. The diesel fuel oil shall have a maximum aromatic content of 35 percent.

Conditions 1-41 for 40 CFR 60.4207 (b), NSPS Subpart III for Cetane Index: This is a condition that applies to the four Caterpillar generators, the 900 kilowatts 1984 Model year Caterpillar D399 (Emission Source CDRP1), the 1000 kilowatts 1984 model year Caterpillar/3512 (Emission Source CDRP2), the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP3), and the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP4).



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This condition states the fuel requirements for compression ignition stationary engines with a displacement of less than 30 liters per cylinder. The diesel fuel oil shall have a minimum centane index of 40 ratio.

Conditions 1-42 for 40 CFR 60.4207 (b), NSPS Subpart IIII for Sulfur Content:

This is a condition that applies to the three Caterpillar generators, the 1000 kilowatts 1984 model year Caterpillar/3512 (Emission Source CDRP2), the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP3), and the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP4).

This condition states the fuel requirements for compression ignition stationary engines with a displacement of less than 30 liters per cylinder. The diesel fuel oil shall have a maximum sulfur content of 15 parts per million by weight.

Condition 141 for 6 NYCRR 227-1.3(a) for Opacity: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, EP: 00003, Proc: G02, ES: CDRP2. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. The opacity limit is 20% and is to be monitored daily. This condition applies to the 1984 model year Caterpillar/3512 generator (Emission Source CDRP2) that is rated at 1000 kilowatts.

Condition 142 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00003, Process: G02 and Emission Source CDRP2. This condition is for Intermittent Emission Testing for Oxides of Nitrogen for the 1984 model year Caterpillar/3512 generator (Emission Source CDRP2) that is rated at 1000 kilowatts.

This condition sets the NO_x emission limit for lean burn engines that provide electrical generation for peak shaving. The limit, which applies to engines listed at 225 horsepower for those in the severe ozone non-attainment area and 400 horsepower for the rest of the state, is 2.3 grams of NO_x per brake horsepower-hour, effective April 1, 2005. But, with the approved NO_x RACT variance, the NO_x emission limit is 7.5 grams per brake horsepower-hour.

Conditions 143 for 6 NYCRR 227.2(b)(1) for Particulates: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00003, Process: G02 and Emission Source CDRP2. This condition is for Intermittent Emission Testing for Particulates.



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This condition is for Intermittent Emission Testing for Particulates for the 1984 model year Caterpillar/3512 generator (Emission Source CDRP2) that is rated at 1000 kilowatts. This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. This condition establishes a particulate limit of 0.10 pounds per million Btus based on a 2 hour average emission for the oil fired stationary combustion installation (previously referenced four boilers) and is required once during the term of the permit.

Condition 1-45 for 40 CFR 80.510 (b), Subpart I for Sulfur: This is a condition that applies to the three Caterpillar generators, the 1000 kilowatts 1984 model year Caterpillar/3512 (Emission Source CDRP2), the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP3), and the 1750 kilowatts 2005 model year Caterpillar/3516 generator (Emission Source CDRP4).

This condition sets forth the limits for Sulfur content for non road and locomotive marine diesel fuel.

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 145 for 6 NYCRR 227-1.3(a) for Opacity: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, EP: 00004, Proc: G34, ES: CDRP3. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. The opacity limit is 20% and is to be monitored daily. This condition applies to the 2005 model year Caterpillar/3516 generator (Emission Source CDRP3) that is rated at 1750 kilowatts.

Condition 146 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00004, Process: G34 and Emission Source CDRP3. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to the 2005 model year Caterpillar/3516 generator (Emission Source CDRP3) that is rated at 1750 kilowatts.

This condition sets the NO_x emission limit for lean burn engines that provide electrical generation for peak shaving. The limit, which applies to engines listed at 225 horsepower for those in the severe ozone non-attainment area and 400 horsepower for the rest of the state, is 2.3 grams of NO_x per brake horsepower-hour, effective April 1, 2005. But, with the approved NO_x RACT variance, the NO_x emission limit is 4.5 grams per brake horsepower-hour.

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Conditions 147 for 6 NYCRR 227.2(b)(1) for Particulates: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00004, Process: G34 and Emission Source CDRP3. This condition is for Intermittent Emission Testing for Particulates.

This condition is for Intermittent Emission Testing for Particulates for the 2005 model year Caterpillar/3516 generator (Emission Source CDRP3) that is rated at 1750 kilowatts. This regulation is from the 1972 version of Part 227 and still remains as part of New York's SIP. This condition establishes a particulate limit of 0.10 pounds per million Btus based on a 2 hour average emission for the oil fired stationary combustion installation (previously referenced four boilers) and is required once during the term of the permit.

Condition 149 for 6 NYCRR 227-1.3(a) for Opacity: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, EP: 00005, Proc: G34, ES: CDRP4. This condition is for Monitoring of Process or Control Device Parameters as Surrogate for Particulates for Opacity. The opacity limit is 20% and is to be monitored daily. This condition applies to the 2005 model year Caterpillar/3516 generator (Emission Source CDRP4) that is rated at 1750 kilowatts.

Condition 150 for 6 NYCRR 227-2.4(f)(2)(ii) for Oxides of Nitrogen: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00005, Process: G34 and Emission Source CDRP4. This condition is for Intermittent Emission Testing for Oxides of Nitrogen and applies to the 2005 model year Caterpillar/3516 generator (Emission Source CDRP4) that is rated at 1750 kilowatts.

This condition sets the NO_x emission limit for lean burn engines that provide electrical generation for peak shaving. The limit, which applies to engines listed at 225 horsepower for those in the severe ozone non-attainment area and 400 horsepower for the rest of the state, is 2.3 grams of NO_x per brake horsepower-hour, effective April 1, 2005. But, with the approved NO_x RACT variance, the NO_x emission limit is 4.5 grams per brake horsepower-hour.

Conditions 151 for 6 NYCRR 227.2(b)(1) for Particulates: This condition is an emission unit level, emission point level, process level and emission source level condition that applies to EU: U-00002, Emission Point: 00005, Process: G34 and Emission Source CDRP4. This condition is for Intermittent Emission Testing for Particulates.

This condition is for Intermittent Emission Testing for Particulates for the 2005 model year Caterpillar/3516 generator (Emission Source CDRP4) that is rated at 1750 kilowatts. This regulation is from the 1972 version of Part 227 and still remains as part of New



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York's SIP. This condition establishes a particulate limit of 0.10 pounds per million Btus based on a 2 hour average emission for the oil fired stationary combustion installation (previously referenced four boilers) and is required once during the term of the permit.