



PERMIT
Under the Environmental Conservation Law (ECL)

IDENTIFICATION INFORMATION

Permit Type: Air Title V Facility
Permit ID: 2-6005-00133/00002
Mod 0 Effective Date: 06/07/2010 Expiration Date: 06/06/2015
Mod 1 Effective Date: 06/28/2013 Expiration Date: 06/06/2015

Permit Issued To: YESHIVA UNIVERSITY
1300 MORRIS PARK AVE
BRONX, NY 10461-1062

Contact: RICHARD CIVITANO
ALBERT EINSTEIN COLLEGE OF MEDICINE
1300 MORRIS PARK AVE
BRONX, NY 10461
(718) 430-2145

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

Description:

PERMIT DESCRIPTION
Albert Einstein College of Medicine
DEC ID # 2-6005-00133/00002 (Ren 2, Mod 1)

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 #6 fuel oil (Process NO6), 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 fume hoods, and ten (10) 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 NO_x variance is sought and approved.

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

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, compression ignition and turbocharged (not naturally aspired).

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 Roussio Building) - Emission Sources BL41A & BL41B, and
- (iv) 2-8.4 MM Btu/hr Federal boilers (in the Rhineland Building) - Emission Sources BL84A & BL84B.

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 three CDRP generators identified as CDRP2, CDRP3 & CDRP4 are limited to 22.5 tpy of NO_x emissions. CDRP1 is not currently participating in the CDRP program.

This project is a minor modification permit application to seek permission to fire #2 fuel oil and thus demonstrate compliance with the NO_x 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 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 addressed 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 0.20 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.

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 operate 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.

In addition, these compression ignition generators are subject to Subpart ZZZZ of 40 CFR 60. 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), these generators/engines are NOT required to reduce Carbon Monoxide emissions by 70% and CO reduction systems are NOT required to be installed as Einstein plans to cap the maximum total annual operating hours of these three engines to under 100 hours per year. However; these three engines will require to comply with the maintenance requirements pertaining to Subpart ZZZZ, which include oil change, filter change, tune-up, etc. 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 NO_x RACT (Oxides of Nitrogen Reasonably Available Control Technology) by changing the burner tip.

The three (3) generators at the Albert Einstein College of Medicine participate in the CDRP program and fall under the definition of 6 NYCRR 201-6.5(c) - emergency defense provision and emergency generators that participate in the Local Reliability program as defined under 40 CFR 63.6640(f)(2)(iii). Therefore, the 100 hours exception for Subpart ZZZZ that does not require CO reduction, the 50 hours of the 100 hours may be used towards Local Reliability (CDRP) in exchange for monetary benefit. The balance of the 100 hours may be used for testing and inspection purposes.

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 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.



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

Permit Administrator: JOHN F CRYAN
 NYSDEC
 47-40 21ST ST
 LONG ISLAND CITY, NY 11101-5407

Authorized Signature: _____ Date: ____ / ____ / ____



Notification of Other State Permittee Obligations

Item A: Permittee Accepts Legal Responsibility and Agrees to Indemnification

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

Item B: Permittee's Contractors to Comply with Permit

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

Item C: Permittee Responsible for Obtaining Other Required Permits

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

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

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



LIST OF CONDITIONS

DEC GENERAL CONDITIONS

General Provisions

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

Facility Level

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



DEC GENERAL CONDITIONS

****** General Provisions ******

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

GENERAL CONDITIONS - Apply to ALL Authorized Permits.

Condition 1: Facility Inspection by the Department

Applicable State Requirement: ECL 19-0305

Item 1.1:

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

Item 1.2:

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

Item 1.3:

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

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

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

Item 2.1:

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

Condition 3: Applications for permit renewals, modifications and transfers

Applicable State Requirement: 6 NYCRR 621.11

Item 3.1:

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

Item 3.2:

The permittee must submit a renewal application at least 180 days before expiration of permits for Title V Facility Permits, or at least 30 days before expiration of permits for State Facility Permits.

Item 3.3:

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



submitted prior to actual transfer of ownership.

Condition 1-1: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 1-1.1:

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

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

Condition 4: Permit modifications, suspensions or revocations by the Department

Applicable State Requirement: 6 NYCRR 621.13

Item 4.1:

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

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

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

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

Applicable State Requirement: 6 NYCRR 621.6 (a)

Item 5.1:

Submission of applications for permit modification or renewal are to be submitted to:

NYSDEC Regional Permit Administrator
Region 2 Headquarters
Division of Environmental Permits
1 Hunters Point Plaza, 4740 21st Street
Long Island City, NY 11101-5407



(718) 482-4997

New York State Department of Environmental Conservation

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Permit Under the Environmental Conservation Law (ECL)

ARTICLE 19: AIR POLLUTION CONTROL - TITLE V PERMIT

IDENTIFICATION INFORMATION

Permit Issued To: YESHIVA UNIVERSITY
1300 MORRIS PARK AVE
BRONX, NY 10461-1062

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

Authorized Activity By Standard Industrial Classification Code:
6512 - NONRESIDENTIAL BUILDING OPERATORS
8221 - COLLEGES AND UNIVERSITIES, NEC

Mod 0 Permit Effective Date: 06/07/2010

Permit Expiration Date: 06/06/2015

Mod 1 Permit Effective Date: 06/28/2013

Permit Expiration Date: 06/06/2015



LIST OF CONDITIONS

FEDERALLY ENFORCEABLE CONDITIONS

Facility Level

- 1 6 NYCRR 200.6: Acceptable Ambient Air Quality
- 1-1 6 NYCRR 201-6.4 (a) (7): Fees
- 1-2 6 NYCRR 201-6.4 (c): Recordkeeping and Reporting of Compliance Monitoring
- 1-3 6 NYCRR 201-6.4 (c) (2): Records of Monitoring, Sampling, and Measurement
- 1-4 6 NYCRR 201-6.4 (c) (3) (ii): Compliance Certification
- 1-5 6 NYCRR 201-6.4 (e): Compliance Certification
- 6 6 NYCRR 202-2.1: Compliance Certification
- 7 6 NYCRR 202-2.5: Recordkeeping requirements
- 8 6 NYCRR Part 215: Open Fires Prohibited at Industrial and Commercial Sites
- 9 6 NYCRR 215.2: Open Fires - Prohibitions
- 10 6 NYCRR 200.7: Maintenance of Equipment
- 1-6 6 NYCRR 201-1.7: Recycling and Salvage
- 12 6 NYCRR 201-1.8: Prohibition of Reintroduction of Collected Contaminants to the air
- 1-7 6 NYCRR 201-3.2 (a): Exempt Sources - Proof of Eligibility
- 1-8 6 NYCRR 201-3.3 (a): Trivial Sources - Proof of Eligibility
- 1-9 6 NYCRR 201-6.4 (a) (4): Requirement to Provide Information
- 1-10 6 NYCRR 201-6.4 (a) (8): Right to Inspect
- 1-11 6 NYCRR 201-6.4 (f) (6): Off Permit Changes
- 19 6 NYCRR 202-1.1: Required Emissions Tests
- 20 6 NYCRR 211.3: Visible Emissions Limited
- 21 40 CFR Part 68: Accidental release provisions.
- 22 40CFR 82, Subpart F: Recycling and Emissions Reduction
- 23 6 NYCRR Subpart 201-6: Emission Unit Definition
- 1-12 6 NYCRR 201-6.4 (d) (4): Progress Reports Due Semiannually
- 1-13 6 NYCRR 201-6.4 (g): Non Applicable requirements
- 1-14 6 NYCRR 201-6.5 (c): Compliance Certification
- 25 6 NYCRR 201-6.5 (g): Non Applicable requirements
- 26 6 NYCRR Subpart 201-7: Facility Permissible Emissions
- *1-15 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *1-16 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *1-17 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *1-18 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- *29 6 NYCRR Subpart 201-7: Capping Monitoring Condition
- 1-19 6 NYCRR 211.1: Air pollution prohibited
- 1-20 6 NYCRR 225-1.2 (b): Compliance Certification
- 1-21 6 NYCRR 225-1.2 (f): Compliance Certification
- 1-22 6 NYCRR 225-1.2 (g): Compliance Certification
- 1-23 6 NYCRR 225-1.2 (h): Compliance Certification
- 1-24 6 NYCRR 225-1.6: Compliance Certification
- 35 6 NYCRR 225.7 (a): Compliance Certification
- 36 6 NYCRR 227-1.3: Compliance Certification
- 37 6 NYCRR 227-1.3 (a): Compliance Certification

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- 1-25 6 NYCRR 227-2.4 (c) (1) (i): Compliance Certification
- 1-26 6 NYCRR 227-2.4 (c) (1) (ii): Compliance Certification
- 1-27 6 NYCRR 227-2.4 (d): Compliance Certification
- 38 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 1-28 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 1-29 6 NYCRR 227-2.4 (f) (3): Compliance Certification
- 1-30 6 NYCRR 227-2.5 (a): Compliance Certification
- 39 6 NYCRR 227-2.5 (c): Compliance Certification
- 40 40CFR 60.8, NSPS Subpart A: Compliance Certification
- 1-31 40CFR 60.4218, NSPS Subpart III: General Provisions
- 1-32 40CFR 63.6585, Subpart ZZZZ: Compliance Certification
- 1-33 40CFR 63.6603(a), Subpart ZZZZ: Compliance Certification
- 1-34 40CFR 63.6625(e), Subpart ZZZZ: Compliance Certification
- 1-35 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification
- 1-36 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification
- 1-37 40CFR 63.6640(f), Subpart ZZZZ: Compliance Certification
- 1-38 40CFR 63.6665, Subpart ZZZZ: Compliance Certification

Emission Unit Level

- 41 6 NYCRR Subpart 201-6: Emission Point Definition By Emission Unit
- 42 6 NYCRR Subpart 201-6: Process Definition By Emission Unit
- 43 6 NYCRR Subpart 201-7: Emission Unit Permissible Emissions
- 44 6 NYCRR Subpart 201-7: Process Permissible Emissions

EU=U-00001,EP=00001,Proc=GAS,ES=0091A

- 46 6 NYCRR 227-2.6 (a) (4): Compliance Certification

EU=U-00001,EP=00001,Proc=GAS,ES=0091B

- 49 6 NYCRR 227-2.6 (a) (4): Compliance Certification

EU=U-00001,EP=00001,Proc=GAS,ES=0094A

- 52 6 NYCRR 227-2.6 (a) (4): Compliance Certification
- 54 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 55 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

EU=U-00001,EP=00001,Proc=GAS,ES=0094B

- 57 6 NYCRR 227-2.6 (a) (4): Compliance Certification
- 59 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 60 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

EU=U-00001,EP=00001,Proc=OIL

- 61 6 NYCRR 227-1.3: Compliance Certification
- 62 6 NYCRR 227-1.3 (a): Compliance Certification
- 63 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=U-00001,EP=00001,Proc=OIL,ES=0091A

- 65 6 NYCRR 227-2.6 (a) (4): Compliance Certification

EU=U-00001,EP=00001,Proc=OIL,ES=0091B

- 68 6 NYCRR 227-2.6 (a) (4): Compliance Certification

EU=U-00001,EP=00001,Proc=OIL,ES=0094A

- 71 6 NYCRR 227-2.6 (a) (4): Compliance Certification

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- 73 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 74 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 75 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.
- 76 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 77 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 78 40CFR 60.7(d), NSPS Subpart A: Excess Emissions Report
- 79 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 80 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 81 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 82 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 83 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 84 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 85 40CFR 60.8(f), NSPS Subpart A: Number of required tests.
- 86 40CFR 60.9, NSPS Subpart A: Availability of information.
- 87 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 88 40CFR 60.12, NSPS Subpart A: Circumvention.
- 89 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 90 40CFR 60.13(c), NSPS Subpart A: Compliance Certification
- 91 40CFR 60.14, NSPS Subpart A: Modifications.
- 92 40CFR 60.15, NSPS Subpart A: Reconstruction.
- 93 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 94 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 95 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Certification
- 96 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Certification
- 97 40CFR 60.44c(h), NSPS Subpart Dc: Compliance Certification
- 98 40CFR 60.46c(d)(2), NSPS Subpart Dc: Compliance Certification
- 99 40CFR 60.47c, NSPS Subpart Dc: Compliance Certification
- 100 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Certification
- 101 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 102 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

EU=U-00001,EP=00001,Proc=OIL,ES=0094B

- 103 6 NYCRR 227-2.4 (c): Compliance Certification
- 104 6 NYCRR 227-2.6 (a) (4): Compliance Certification
- 105 6 NYCRR 227-2.6 (c): Compliance Certification
- 106 40CFR 60, NSPS Subpart A: Applicability of General Provisions of 40 CFR 60 Subpart A
- 107 40CFR 60.4, NSPS Subpart A: EPA Region 2 address.
- 108 40CFR 60.7(a), NSPS Subpart A: Date of Construction Notification - if a COM is used.
- 109 40CFR 60.7(b), NSPS Subpart A: Recordkeeping requirements.
- 110 40CFR 60.7(c), NSPS Subpart A: Compliance Certification
- 111 40CFR 60.7(d), NSPS Subpart A: Excess Emissions Report
- 112 40CFR 60.7(f), NSPS Subpart A: Facility files for subject sources.
- 113 40CFR 60.8(a), NSPS Subpart A: Performance testing timeline.
- 114 40CFR 60.8(b), NSPS Subpart A: Performance test methods.
- 115 40CFR 60.8(c), NSPS Subpart A: Required performance test information.
- 116 40CFR 60.8(d), NSPS Subpart A: Prior notice.
- 117 40CFR 60.8(e), NSPS Subpart A: Performance testing facilities.
- 118 40CFR 60.8(f), NSPS Subpart A: Number of required tests.

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- 119 40CFR 60.9, NSPS Subpart A: Availability of information.
- 120 40CFR 60.11, NSPS Subpart A: Opacity standard compliance testing.
- 121 40CFR 60.12, NSPS Subpart A: Circumvention.
- 122 40CFR 60.13, NSPS Subpart A: Monitoring requirements.
- 123 40CFR 60.13(c), NSPS Subpart A: Compliance Certification
- 124 40CFR 60.14, NSPS Subpart A: Modifications.
- 125 40CFR 60.15, NSPS Subpart A: Reconstruction.
- 126 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 127 40CFR 60.40c, NSPS Subpart Dc: Compliance Certification
- 128 40CFR 60.42c(d), NSPS Subpart Dc: Compliance Certification
- 129 40CFR 60.43c(c), NSPS Subpart Dc: Compliance Certification
- 130 40CFR 60.44c(h), NSPS Subpart Dc: Compliance Certification
- 131 40CFR 60.46c(d)(2), NSPS Subpart Dc: Compliance Certification
- 132 40CFR 60.47c, NSPS Subpart Dc: Compliance Certification
- 133 40CFR 60.48c(f)(1), NSPS Subpart Dc: Compliance Certification
- 134 40CFR 60.48c(g), NSPS Subpart Dc: Compliance Certification
- 135 40CFR 60.48c(i), NSPS Subpart Dc: Compliance Certification

EU=U-00002,EP=00002,Proc=G01,ES=CDRP1

- 136 6 NYCRR 227-1.3: Compliance Certification
- 137 6 NYCRR 227-1.3 (a): Compliance Certification
- 138 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 139 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=U-00002,EP=00002,Proc=GEN,ES=CDRP1

- 1-39 6 NYCRR 201-3.2 (c): Compliance Certification
- 1-40 40CFR 60.4207(b), NSPS Subpart IIII: Compliance Certification
- 1-41 40CFR 60.4207(b), NSPS Subpart IIII: Compliance Certification
- 1-42 40CFR 60.4207(b), NSPS Subpart IIII: Compliance Certification
- 1-43 40CFR 60.4209(a), NSPS Subpart IIII: Compliance Certification
- 1-44 40CFR 60.4211(a), NSPS Subpart IIII: Compliance Certification

EU=U-00002,EP=00003,Proc=G02,ES=CDRP2

- 140 6 NYCRR 227-1.3: Compliance Certification
- 141 6 NYCRR 227-1.3 (a): Compliance Certification
- 142 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 143 6 NYCRR 227.2 (b) (1): Compliance Certification
- 1-45 40CFR 80.510(b), Subpart I: Compliance Certification

EU=U-00002,EP=00004,Proc=G34,ES=CDRP3

- 144 6 NYCRR 227-1.3: Compliance Certification
- 145 6 NYCRR 227-1.3 (a): Compliance Certification
- 146 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 147 6 NYCRR 227.2 (b) (1): Compliance Certification

EU=U-00002,EP=00005,Proc=G34,ES=CDRP4

- 148 6 NYCRR 227-1.3: Compliance Certification
- 149 6 NYCRR 227-1.3 (a): Compliance Certification
- 150 6 NYCRR 227-2.4 (f) (2) (ii): Compliance Certification
- 151 6 NYCRR 227.2 (b) (1): Compliance Certification

STATE ONLY ENFORCEABLE CONDITIONS

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Facility Level

152 ECL 19-0301: Contaminant List

1-46 6 NYCRR 201-1.4: Malfunctions and start-up/shutdown activities

154 6 NYCRR 211.2: Air pollution prohibited

1-47 6 NYCRR 211.2: Visible Emissions Limited

NOTE: * preceding the condition number indicates capping.



FEDERALLY ENFORCEABLE CONDITIONS
****** Facility Level ******

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

Item A: Emergency Defense - 6 NYCRR 201-1.5

An emergency, as defined by subpart 201-2, constitutes an affirmative defense to penalties sought in an enforcement action brought by the Department for noncompliance with emissions limitations or permit conditions for all facilities in New York State.

(a) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that:

(1) An emergency occurred and that the facility owner or operator can identify the cause(s) of the emergency;

(2) The equipment at the permitted facility causing the emergency was at the time being properly operated and maintained;

(3) During the period of the emergency the facility owner or operator took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit; and

(4) The facility owner or operator notified the Department within two working days after the event occurred. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken.

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

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

Item B: 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.

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

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

Item D: Certification by a Responsible Official - 6 NYCRR 201-6.2 (d) (12)

Any application, form, report or compliance certification required to be submitted pursuant to the federally enforceable portions of this permit shall contain a certification of truth, accuracy and completeness by a responsible official. This certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

Item E: Requirement to Comply With All Conditions - 6 NYCRR 201-6.4 (a) (2)

The permittee must comply with all conditions of the Title V facility permit. Any permit non-compliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

Item F: Permit Revocation, Modification, Reopening, Reissuance or Termination, and Associated Information Submission Requirements - 6 NYCRR 201-6.4 (a) (3)

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

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.

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Item I: Severability - 6 NYCRR 201-6.4 (a) (9)

If any provisions, parts or conditions of this permit are found to be invalid or are the subject of a challenge, the remainder of this permit shall continue to be valid.

Item J: Permit Shield - 6 NYCRR 201-6.4 (g)

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

- i. The ability of the Department to seek to bring suit on behalf of the State of New York, or the Administrator to seek to bring suit on behalf of the United States, to immediately restrain any person causing or contributing to pollution presenting an imminent and substantial endangerment to public health, welfare or the environment to stop the emission of air pollutants causing or contributing to such pollution;
- ii. The liability of a permittee of the Title V facility for any violation of applicable requirements prior to or at the time of permit issuance;
- iii. The applicable requirements of Title IV of the Act;
- iv. The ability of the Department or the Administrator to obtain information from the permittee concerning the ability to enter, inspect and monitor the facility.

Item K: Reopening for Cause - 6 NYCRR 201-6.4 (i)

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

- i. If additional applicable requirements under the Act become applicable where this permit's remaining term is

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three or more years, a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which this permit is due to expire, unless the original permit or any of its terms and conditions has been extended by the Department pursuant to the provisions of Part 201-6.7 and Part 621.

ii. The Department or the Administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

iii. The Department or the Administrator determines that the Title V permit must be revised or reopened to assure compliance with applicable requirements.

iv. If the permitted facility is an "affected source" subject to the requirements of Title IV of the Act, and additional requirements (including excess emissions requirements) become applicable. Upon approval by the Administrator, excess emissions offset plans shall be deemed to be incorporated into the permit.

Proceedings to reopen and issue Title V facility permits shall follow the same procedures as apply to initial permit issuance but shall affect only those parts of the permit for which cause to reopen exists.

Reopenings shall not be initiated before a notice of such intent is provided to the facility by the Department at least thirty days in advance of the date that the permit is to be reopened, except that the Department may provide a shorter time period in the case of an emergency.

Item 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

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(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.

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

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

Condition 1: Acceptable Ambient Air Quality
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 200.6

Item 1.1:

Notwithstanding the provisions of 6 NYCRR Chapter III, Subchapter A, no person shall allow or permit any air contamination source to emit air contaminants in quantities which alone or in combination with emissions from other air contamination sources would contravene any applicable ambient air quality standard and/or cause air pollution. In such cases where contravention occurs or may occur, the Commissioner shall specify the degree and/or method of emission control required.

Condition 1-1: Fees
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-1.1:

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

Condition 1-2: Recordkeeping and Reporting of Compliance Monitoring
Effective between the dates of 06/28/2013 and 06/06/2015

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

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Item 1-2.1:

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

- (i) The date, place, and time of sampling or measurements;
- (ii) The date(s) analyses were performed;
- (iii) The company or entity that performed the analyses;
- (iv) The analytical techniques or methods used including quality assurance and quality control procedures if required;
- (v) The results of such analyses including quality assurance data where required; and
- (vi) The operating conditions as existing at the time of sampling or measurement.

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

**Condition 1-3: Records of Monitoring, Sampling, and Measurement
Effective between the dates of 06/28/2013 and 06/06/2015**

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (2)

Item 1-3.1:

Compliance monitoring and recordkeeping shall be conducted according to the terms and conditions contained in this permit and shall follow all quality assurance requirements found in applicable regulations. Records of all monitoring data and support information must be retained for a period of at least 5 years from the date of the monitoring, sampling, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.

**Condition 1-4: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015**

Applicable Federal Requirement: 6 NYCRR 201-6.4 (c) (3) (ii)

Item 1-4.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-4.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

To meet the requirements of this facility permit with respect to reporting, the permittee must:

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Submit reports of any required monitoring at a minimum frequency of every 6 months, based on a calendar year reporting schedule. These reports shall be submitted to the Department within 30 days after the end of a reporting period. All instances of deviations from permit requirements must be clearly identified in such reports. All required reports must be certified by the responsible official for this facility.

Notify the Department and report permit deviations and incidences of noncompliance stating the probable cause of such deviations, and any corrective actions or preventive measures taken. Where the underlying applicable requirement contains a definition of prompt or otherwise specifies a time frame for reporting deviations, that definition or time frame shall govern. Where the underlying applicable requirement fails to address the time frame for reporting deviations, reports of deviations shall be submitted to the permitting authority based on the following schedule:

- (1) For emissions of a hazardous air pollutant (as identified in an applicable regulation) that continue for more than an hour in excess of permit requirements, the report must be made within 24 hours of the occurrence.
- (2) For emissions of any regulated air pollutant, excluding those listed in paragraph (1) of this section, that continue for more than two hours in excess of permit requirements, the report must be made within 48 hours.
- (3) For all other deviations from permit requirements, the report shall be contained in the 6 month monitoring report required above.
- (4) This permit may contain a more stringent reporting requirement than required by paragraphs (1), (2) or (3) above. If more stringent reporting requirements have been placed in this permit or exist in applicable requirements that apply to this facility, the more stringent reporting requirement shall apply.

If above paragraphs (1) or (2) are met, the source must notify the permitting authority by telephone during normal business hours at the Regional Office of jurisdiction for this permit, attention Regional Air Pollution Control Engineer (RAPCE) according to the timetable listed in paragraphs (1) and (2) of this section. For deviations and incidences that must be reported outside of normal business hours, on weekends, or holidays, the DEC Spill

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Hotline phone number at 1-800-457-7362 shall be used. A written notice, certified by a responsible official consistent with 6 NYCRR Part 201-6.2(d)(12), must be submitted within 10 working days of an occurrence for deviations reported under (1) and (2). All deviations reported under paragraphs (1) and (2) of this section must also be identified in the 6 month monitoring report required above.

The provisions of 6 NYCRR 201-1.4 shall apply if the permittee seeks to have a violation excused unless otherwise limited by regulation. In order to have a violation of a federal regulation (such as a new source performance standard or national emissions standard for hazardous air pollutants) excused, the specific federal regulation must provide for an affirmative defense during start-up, shutdowns, malfunctions or upsets. Notwithstanding any recordkeeping and reporting requirements in 6 NYCRR 201-1.4, reports of any deviations shall not be on a less frequent basis than the reporting periods described in paragraphs (1) and (4) above.

In the case of any condition contained in this permit with a reporting requirement of "Upon request by regulatory agency" the permittee shall include in the semiannual report, a statement for each such condition that the monitoring or recordkeeping was performed as required or requested and a listing of all instances of deviations from these requirements.

In the case of any emission testing performed during the previous six month reporting period, either due to a request by the Department, EPA, or a regulatory requirement, the permittee shall include in the semiannual report a summary of the testing results and shall indicate whether or not the Department or EPA has approved the results.

All semiannual reports shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Mailing addresses for the above referenced persons are contained in the monitoring condition for 6 NYCRR Part 201-6.4(e), contained elsewhere in this permit.

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

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



Condition 1-5: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-5.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-5.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

- i. Compliance certifications shall contain:
 - the identification of each term or condition of the permit that is the basis of the certification;
 - the compliance status;
 - whether compliance was continuous or intermittent;
 - the method(s) used for determining the compliance status of the facility, currently and over the reporting period consistent with the monitoring and related record keeping and reporting requirements of this permit;
 - such other facts as the Department may require to determine the compliance status of the facility as specified in any special permit terms or conditions;and
 - such additional requirements as may be specified elsewhere in this permit related to compliance certification.
- ii. The responsible official must include in the annual certification report all terms and conditions contained in this permit which are identified as being subject to certification, including emission limitations, standards, or work practices. That is, the provisions labeled herein as "Compliance Certification" are not the only provisions of this permit for which an annual certification is required.
- iii. Compliance certifications shall be submitted annually. Certification reports are due 30 days after the anniversary date of four consecutive calendar quarters. The first report is due 30 days after the calendar quarter that occurs just prior to the permit anniversary date, unless another quarter has been acceptable by the Department.

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iv. All compliance certifications shall be submitted to the Administrator (or his or her representative) as well as two copies to the Department (one copy to the regional air pollution control engineer (RAPCE) in the regional office and one copy to the Bureau of Quality Assurance (BQA) in the DEC central office). Please send annual compliance certifications to Chief of the Stationary Source Compliance Section, the Region 2 EPA representative for the Administrator, at the following address:

USEPA Region 2
Air Compliance Branch
290 Broadway
New York, NY 10007-1866

The address for the RAPCE is as follows:

Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101-5407

The address for the BQA is as follows:

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

Monitoring Frequency: ANNUALLY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2011.
Subsequent reports are due on the same day each year

Condition 6: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 202-2.1

Item 6.1:

The Compliance Certification activity will be performed for the Facility.

Item 6.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

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

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

Condition 7: Recordkeeping requirements
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 202-2.5

Item 7.1:

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

- (1) a copy of each emission statement submitted to the department; and
- (2) records indicating how the information submitted in the emission statement was determined, including any calculations, data, measurements, and estimates used.

(b) These records shall be made available at the facility to the representatives of the department upon request during normal business hours.

Condition 8: Open Fires Prohibited at Industrial and Commercial Sites
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR Part 215

Item 8.1:

No person shall burn, cause, suffer, allow or permit the burning in an open fire of garbage, refuse, rubbish for salvage, or rubbish generated by industrial or commercial activities.

Condition 9: Open Fires - Prohibitions
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 215.2

Item 9.1:

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

Item 9.2

Per Section 215.3, burning in an open fire, provided it is not contrary to other law or regulation, will be allowed as follows:

- (a) On-site burning in any town with a total population less than 20,000 of downed limbs and branches (including branches with attached leaves or needles) less than six inches in diameter and eight feet in length between May 15th and the following March 15th. For the purposes of this subdivision, the total population of a town shall include the population of any village or portion thereof located within the town. However, this subdivision shall not be construed to allow burning within any village.
- (b) Barbecue grills, maple sugar arches and similar outdoor cooking devices when actually used for cooking or processing food.
- (c) Small fires used for cooking and camp fires provided that only charcoal or untreated wood is

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used as fuel and the fire is not left unattended until extinguished.

(d) On-site burning of agricultural wastes as part of a valid agricultural operation on contiguous agricultural lands larger than five acres actively devoted to agricultural or horticultural use, provided such waste is actually grown or generated on those lands and such waste is capable of being fully burned within a 24-hour period.

(e) The use of liquid petroleum fueled smudge pots to prevent frost damage to crops.

(f) Ceremonial or celebratory bonfires where not otherwise prohibited by law, provided that only untreated wood or other agricultural products are used as fuel and the fire is not left unattended until extinguished.

(g) Small fires that are used to dispose of a flag or religious item, and small fires or other smoke producing process where not otherwise prohibited by law that are used in connection with a religious ceremony.

(h) Burning on an emergency basis of explosive or other dangerous or contraband materials by police or other public safety organization.

(i) Prescribed burns performed according to Part 194 of this Title.

(j) Fire training, including firefighting, fire rescue, and fire/arson investigation training, performed under applicable rules and guidelines of the New York State Department of State's Office of Fire Prevention and Control. For fire training performed on acquired structures, the structures must be emptied and stripped of any material that is toxic, hazardous or likely to emit toxic smoke (such as asbestos, asphalt shingles and vinyl siding or other vinyl products) prior to burning and must be at least 300 feet from other occupied structures. No more than one structure per lot or within a 300 foot radius (whichever is bigger) may be burned in a training exercise.

(k) Individual open fires as approved by the Director of the Division of Air Resources as may be required in response to an outbreak of a plant or animal disease upon request by the commissioner of the Department of Agriculture and Markets, or for the destruction of invasive plant and insect species.

(l) Individual open fires that are otherwise authorized under the environmental conservation law, or by rule or regulation of the Department.

MANDATORY FEDERALLY ENFORCEABLE PERMIT CONDITIONS SUBJECT TO ANNUAL CERTIFICATIONS ONLY IF APPLICABLE

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

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

Condition 10: Maintenance of Equipment
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 200.7

Item 10.1:

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

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Condition 1-6: Recycling and Salvage
Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 201-1.7

Item 1-6.1:

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

Condition 12: Prohibition of Reintroduction of Collected Contaminants to the air
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 201-1.8

Item 12.1:

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

Condition 1-7: Exempt Sources - Proof of Eligibility
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-7.1:

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

Condition 1-8: Trivial Sources - Proof of Eligibility
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-8.1:

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

Condition 1-9: Requirement to Provide Information
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-9.1:

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

Condition 1-10: Right to Inspect

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-10.1:

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

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

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

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

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

Condition 1-11: Off Permit Changes

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-11.1:

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

(i) For each such change, the written notification required above shall include a brief description of the change within the permitted facility, the date on which the change will occur, any change

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in emissions, and any permit term or condition that is no longer applicable as a result of the change.

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

Condition 19: Required Emissions Tests
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 202-1.1

Item 19.1:

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

Condition 20: Visible Emissions Limited
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 211.3

Item 20.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

Condition 21: Accidental release provisions.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40 CFR Part 68

Item 21.1:

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

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

Risk Management Plan Reporting Center
C/O CSC

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8400 Corporate Dr
Carrollton, Md. 20785

Condition 22: Recycling and Emissions Reduction
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 82, Subpart F

Item 22.1:

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

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

Condition 23: Emission Unit Definition
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 23.1(From Mod 1):

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

Emission Unit: U-00001

Emission Unit Description:

Emission Unit U-00001 consists of 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 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.

Building(s): 2

Item 23.2(From Mod 1):

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

Emission Unit: U-00002



Emission Unit Description:

Emission Unit U-00002 consists of 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.

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

Building(s): 3
4
5

Item 23.3(From Mod 1):

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

Emission Unit: U-00003

Emission Unit Description:

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		

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BL41A Federal Rousso
4.1 MM Btu/hr

BL41B Federal Rousso
4.1 MM Btu/hr

BL84A Federal Rhineland
8.4 MM Btu/hr

BL84B Federal Rhineland
8.4 MM Btu/hr

E Source Process E Point

BL41A NGP only
00006

BL41B NO2 & NGP 00006

BL84A NO4 only
00007

BL84B NO4 only 00007

Building(s): 6
7

Condition 1-12: Progress Reports Due Semiannually
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-12.1:

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

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

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

Condition 1-13: Non Applicable requirements
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-13.1:

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

(From Mod 1) 40 CFR 63.6603 (a)

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.

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.

40 CFR 63.6640

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

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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 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.

40 CFR 89.112

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 aspirated).

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.

Condition 1-14: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 201-6.5 (c)

Item 1-14.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-14.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

(c) 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

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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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 25: Non Applicable requirements
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 201-6.5 (g)

Item 25.1:

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

40 CFR Part 60, Subpart IIII

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.

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Condition 26: Facility Permissible Emissions

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 26.1:

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

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

CAS No: 007446-09-5 (From Mod 1) PTE: 1,164,924.3
pounds per year

Name: SULFUR DIOXIDE

CAS No: 0NY210-00-0 (From Mod 1) PTE: 2,265,582.9
pounds per year

Name: OXIDES OF NITROGEN

Condition 1-15: Capping Monitoring Condition

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 1-15.1:

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

40 CFR Part 63, Subpart ZZZZ

Item 1-15.2:

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

Item 1-15.3:

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

Item 1-15.4:

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

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Item 1-15.5:

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

Item 1-15.6:

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

Emission Unit: U-00002	Emission Point: 00002
Process: GEN	Emission Source: CDRP1
Emission Unit: U-00002	Emission Point: 00003
Process: GEN	Emission Source: CDRP2
Emission Unit: U-00002	Emission Point: 00004
Process: GEN	Emission Source: CDRP3
Emission Unit: U-00002	Emission Point: 00005
Process: GEN	Emission Source: CDRP4

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

Item 1-15.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

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 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.)

Work Practice Type: DAYS PER YEAR OPERATION

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 100 days

Monitoring Frequency: MONTHLY

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Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 1-16: Capping Monitoring Condition

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-16.1:

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

6 NYCRR Subpart 231-2

Item 1-16.2:

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

Item 1-16.3:

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

Item 1-16.4:

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

Item 1-16.5:

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

Item 1-16.6:

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

Emission Unit: U-00002
Process: GEN

Emission Point: 00002
Emission Source: CDRP1

Emission Unit: U-00002
Process: GEN

Emission Point: 00003
Emission Source: CDRP2

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Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

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

Item 1-16.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

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.

These CDRP generators will be operated such that the total oxides of nitrogen (NOx) 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 NOx.

All three generators are permitted under the Title V permit and have been granted NOx 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 NOx RACT requirements. CDRP1 is 900 KW, CDRP2 is 1000 KW, 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 NOx emissions (based on the fuel quantity) using the following approved emission factors from the most recent stack test and the formula below:

$$E2 (1000 \times 7.5 \times 1.34) + E3 (1750 \times 4.5 \times 1.34) + E4 (1000 \times 4.5 \times 1.34) < 45,000 \text{ lbs/yr of NOx emissions}$$

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where:

E2 = 12-month rolling total of distillate oil fired (from engine CDRP2) in gal/yr

E3 = 12-month rolling total of distillate oil fired (from engine CDRP2) in gal/yr

E4 = 12-month rolling total of distillate oil fired (from engine CDRP2) in gal/yr

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

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 22.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 1-17: Capping Monitoring Condition

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-17.1:

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

6 NYCRR Subpart 202-2

6 NYCRR Subpart 231-2

Item 1-17.2:

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

Item 1-17.3:

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

Item 1-17.4:

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

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applicable requirement.

Item 1-17.5:

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

Item 1-17.6:

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

Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0094B
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0094B
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0094B

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

Item 1-17.7:

Compliance Certification shall include the following monitoring:

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Capping: Yes

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

Monitoring Description:

The facility proposes to cap the total NO_x emissions at 135 tpy for the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) for all four boilers referenced above. This will allow usage of natural gas, #6 fuel oil and #2 fuel oil in any flexible combinations, but to remain below the 135 tpy of NO_x emissions, as originally permitted.

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 and total sulfur dioxide (SO₂) emissions will remain below 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).

The NO_x emissions from the two 94 MM Btu/hr each Babcock & Wilcox boilers (in the Powerhouse) - Emission Sources 0094A & 0094B, and the two 91 MM Btu/hr each Keeler boilers (also in the Powerhouse) - Emission Sources 0091A & 0091B are limited to 135 tons per year.

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. The result of the December 17-21, 2009 stack testing conducted on the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) operating on natural gas and #6 fuel oil were as follows:

Boiler	NO _x Emission on NG (lb/MM Btu)	NO _x Emission on #6 FO (lb/MM Btu)
0091A	0.0831	
	0.2610	

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0091B 0.0865
0.2748

0094A 0.0866
0.2606

0094B 0.0697
0.2779

Using a heating value of 1,037 Btu/SCF for natural gas and 150,000 Btu/gal for #6 fuel oil. The following emission factors for the four boilers are calculated below for the NOx emission limit of 135 tpy.

Boiler	Emission Factor for NG (lbs/MMSCF)	Emission Factor for #6 FO (lbs/gal)
--------	---------------------------------------	--

0091A 86.2
0.039

0091B 89.7
0.041

0094A 89.8
0.039

0094B 72.3
0.042

The NOx (oxides of nitrogen) emissions for the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) are capped at 135 tons per year. The owner or operator shall maintain a record of the quantity of each fuel fired in these four mid-size boilers at the facility. Also, the owner or operator shall calculate the NOx emission (based on the fuel quantity) using the following formula:

$$R91A (0.039) + G91A(86.2) + D91A(\text{EF distillate in lbs/gal}) + R91B (0.041) + G91B(89.7) + D91B (\text{EF distillate in lbs/gal}) + R94A (0.039) + G94A(89.8) + D94A(\text{EF distillate in lbs/gal}) + R94B (0.042) + G94B(72.3) + D94B (\text{EF Distillate in lbs/gal}) < 270,000 \text{ lbs/yr of Oxides of Nitrogen emissions.}$$

Where:

R91A = 12-month rolling total of residual oil fired in

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Boiler 91A in gals/yr
G91A = 12-month rolling total of natural gas fired in
Boiler 91A in MMSCF/yr
D91A = 12-month rolling total of distillate oil fired in
Boiler 91A in gals/yr
R91B = 12-month rolling total of residual oil fired in
Boiler 91B in gals/yr
G91B = 12-month rolling total of natural gas fired in
Boiler 91B in MMSCF/yr
D91B = 12-month rolling total of distillate oil fired in
Boiler 91B in gals/yr
R94A = 12-month rolling total of residual oil fired in
Boiler 94A in gals/yr
G94A = 12-month rolling total of natural gas fired in
Boiler 94A in MMSCF/yr
D94A = 12-month rolling total of distillate oil fired in
Boiler 94A in gals/yr
R94B = 12-month rolling total of residual oil fired in
Boiler 94B in gals/yr
G94B = 12-month rolling total of natural gas fired in
Boiler 94B in MMSCF/yr
D94B = 12-month rolling total of distillate oil fired in
Boiler 94B in gals/yr

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NATURAL GAS

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 135 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 1-18: Capping Monitoring Condition

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 1-18.1:

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

6 NYCRR Subpart 202-2
40 CFR 52.21 (j)

Item 1-18.2:

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

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Item 1-18.3:

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

Item 1-18.4:

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

Item 1-18.5:

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

Item 1-18.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0094B
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0094B
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0091A

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Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0091B

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0094A

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0094B

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 1-18.7:

Compliance Certification shall include the following monitoring:

Capping: Yes

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

Monitoring Description:

The facility proposes to cap the total SO₂ emissions at 140 tpy for the four main mid-size boilers (Emission Sources 0091A, 0091B, 0094A & 0094B) for all four boilers referenced above. This will allow usage of natural gas, #6 fuel oil and #2 fuel oil in any flexible combinations, but to remain below the 140 tpy of SO₂ emissions, as originally permitted.

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 and total sulfur dioxide (SO₂) emissions will remain below the 140 TPY. The maximum #6 fuel oil or #2 fuel oil that can be used is 5.0 million gallons (if # 6 is used alone), the maximum #2 fuel oil that can be used is 6.5 million gallons (if # 2 is used alone) and the maximum natural gas that can be used is 2,469 million cubic feet (if natural gas is used alone).

The SO₂ emissions from the two 94 MM Btu/hr each Babcock & Wilcox boilers (in the Powerhouse) - Emission Sources 0094A & 0094B, and the two 91 MM Btu/hr each Keeler boilers (also in the Powerhouse) - Emission Sources 0091A & 0091B are limited to 140 tons per year. The owner or operator shall maintain a record of the quantity of each fuel fired in these four mid-size boilers at the facility. The following formula will be used to calculate (based on the fuel quantity) the monthly SO₂ emission, and to demonstrate compliance with this cap on a rolling 12-month basis where the individual monthly SO₂ emission will be determined from the following equation:

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$$Y = [(A \times B) + (C \times D)] + (E \times F) / 2,000 < 140 \text{ tpy}$$

where

Y = Monthly four mid-size boilers SO₂ emission;

A = the monthly consumption of number 6 and number 4 fuel oil (1,000 gallons);

B = $157 \times S$ lbs SO₂ / 1,000 gallons burned (based on EPA's AP-42 emission factor where S is the sulfur content of the fuel oil in percent);

C = the consumption of natural gas in the four mid-size boilers (million cubic feet);

D = 0.6 lbs SO₂ / million cubic feet burned (based on EPA's AP-42 emission factors);

E = the monthly consumption of number 2 fuel oil (1,000 gallons);

F = $142 \times S$ lbs SO₂ / 1,000 gallons burned (based on EPA's AP-42 emission factor where S is the sulfur content of the fuel oil in percent);

A rolling 12-month tally will be maintained to ensure compliance with the 140 tpy limit.

The maximum #6 fuel oil that can be used is 5.9 million gallons (if #6 fuel oil is used alone), and the maximum natural gas that can be used is 2,500 million cubic feet (if gas is used alone). The maximum #2 fuel oil that can be used is 6.5 million gallons (if #2 fuel oil is used alone).

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: SULFUR DIOXIDE

Upper Permit Limit: 140 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 29: Capping Monitoring Condition

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 29.1:

Under the authority of 6 NYCRR Part 201-7, this condition contains an emission cap for the purpose of limiting emissions from the facility, emission unit or process to avoid being subject to

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the following applicable requirement(s) that the facility, emission unit or process would otherwise be subject to:

6 NYCRR Subpart 202-2

6 NYCRR Subpart 231-2

Item 29.2:

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

Item 29.3:

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

Item 29.4:

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

Item 29.5:

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

Item 29.6:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: G01

Emission Point: 00002
Emission Source: CDRP1

Emission Unit: U-00002
Process: G02

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: G34

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: G34

Emission Point: 00005
Emission Source: CDRP4

Regulated Contaminant(s):

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

Item 29.7:

Compliance Certification shall include the following monitoring:

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Capping: Yes

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

Monitoring Description:

Albert Einstein College of Medicine (AECOM) is an existing Air Title V facility that 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 Ullmann 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 four 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 (4) generators are large stationary internal combustion, lean burn, and compression ignition. All four generators were built in 2005 or before, and therefore; 40 CFR Part 60, Subpart IIII is not applicable.

The participation of four emergency generators in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NOx) emissions to 22.5 tpy. The permit application included a NOx RACT variance analysis based on Air Guide 20 to approve a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NOx above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr). Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4). All four generators were built in 2005 or before, and therefore; 40 CFR Part 60, Subpart IIII is not applicable. The NOx variance is based on the results from the stack test that was conducted on May 13 & 14, 2009. The results were as follow:

Generator Model/Year	Building NOx Emissions	Power Output	
CDRP1 D399/1984	Chanin Not stack tested yet	900 KW	CAT
CDRP2 3512/1984	Ullmann 7.3 gm/bhp-hr	1,000 KW	CAT

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CDRP3 Price Center 1,750 KW CAT
3516/2005 4.0 gm/bhp-hr

CDRP4 Price Center 1,750 KW CAT
3516/2005 4.3 gm/bhp-hr

To account for variability, the Department is setting the NOx emissions limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NOx emission limit at 4.5 gm/bhp-hr for the two 1,750 KW each CAT 3516 engines in the Price Center (Emission Sources CDRP3 & CDRP4). The NOx (oxides of nitrogen) emissions are capped at 22.5 tons per year. The owner or operator shall maintain a record of the quantity of each fuel fired at the facility. Also, the owner or operator shall calculate the NOx emissions (based on the fuel quantity) using the following formula:

$$E1(0.44) + N1(3400) + E2(0.367) + N2(3400) + E3(0.22) + N3(3400) + E4(0.22) + N4(3400) < 45,000 \text{ lbs/yr of Oxides of Nitrogen emissions.}$$

Where:

E = 12-month rolling total of distillate oil fired (from engine) in gals/yr

N = 12-month rolling total of natural gas fired (from engine) in MMSCF/yr

Where:

E1 = 12-month rolling total of diesel fuel oil fired from CDRP1 engine in gals/yr

N1 = 12-month rolling total of natural gas fired from CDRP1 engine in MMSCF/yr

E2 = 12-month rolling total of diesel fuel oil fired from CDRP2 engine in gals/yr

N2 = 12-month rolling total of natural gas fired from CDRP2 engine in MMSCF/yr

E3 = 12-month rolling total of diesel fuel oil fired from CDRP3 engine in gals/yr

N3 = 12-month rolling total of natural gas fired from CDRP3 engine in MMSCF/yr

E4 = 12-month rolling total of diesel fuel oil fired from CDRP4 engine in gals/yr

N4 = 12-month rolling total of natural gas fired from CDRP4 engine in MMSCF/yr

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Based on the May 13-14, 2009 stack test results, 22.5 TPY of NO_x emissions correspond to 178,500 gallons per year of diesel fuel.

The emission factor of 0.44 lbs/gal for CDRP1 is based on 9.0 gm/bhp-hr (stack testing has not been conducted yet), the emission factor of 0.367 lbs/gal for CDRP2 is based on 7.5 gm/bhp-hr, the emission factor of 0.22 lbs/gal for CDRP3 and CDRP4 is based on 4.5 gm/bhp-hr. All the emission factors are based on the May 13-14, 2009 stack testing.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 22.5 tons per year

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2011.

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

Condition 1-19: Air pollution prohibited

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 211.1

Item 1-19.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 1-20: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-20.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-20.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

Owners and/or operators of any stationary combustion installation that fires either solid fuels or oil are limited to the firing of solid fuels or oil with a sulfur

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content listed in paragraph 6 NYCRR 225-1.2(b) through June 30, 2014.

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.20 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-21: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-21.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-21.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

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

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

Condition 1-22: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-22.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-22.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

Owners and/or operators of a stationary combustion installation that fires distillate oil other than number two heating oil are limited to the purchase of distillate oil with 0.0015 percent sulfur by weight or less on or after July 1, 2014. Compliance with this limit will be based on vendor certifications.

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL
Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.0015 percent by weight
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-23: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-23.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-23.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

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

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

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DISTILLATES - NUMBER 1 AND NUMBER 2 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.0015 percent by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-24: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 225-1.6

Item 1-24.1:

The Compliance Certification activity will be performed for the Facility.

Regulated Contaminant(s):

CAS No: 007446-09-5 SULFUR DIOXIDE

Item 1-24.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES



Monitoring Description:

§225-1.6 Reports, sampling, and analysis.

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

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

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

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

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

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

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

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

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

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

(e) Data collected pursuant to this Subpart must be tabulated and summarized in a form acceptable to the department, and must be retained for at least five years. The owner of a Title V facility must furnish to the department such records and summaries, on a semiannual calendar basis, within 30 days after the end of the semiannual period. All other facility owners or distributors must submit these records and summaries upon request of the department.

(f) Facility owners subject to this Subpart must submit a written report of the fuel sulfur content exceeding the applicable sulfur-in-fuel limitation, measured emissions

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exceeding the applicable sulfur-in-fuel limitation, measured emissions exceeding the applicable equivalent emission rate, and the nature and cause of such exceedances if known, for each calendar quarter, within 30 days after the end of any quarterly period in which an exceedance takes place.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 4/30/2014.
Subsequent reports are due every 12 calendar month(s).

Condition 35: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 225.7 (a)

Item 35.1:
The Compliance Certification activity will be performed for the Facility.

Item 35.2:
Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES
Monitoring Description:

The permittee shall retain fuel oil supplier certifications for each shipment of oil received. Such certifications shall contain, as a minimum, supplier name, date of shipment, quantity shipped, heating value of the oil, oil sulfur content, and the method used to determine the sulfur content. Such certifications shall be available for inspection by, or submitted to, the NYSDEC as per the stated reporting requirement.

Monitoring Frequency: PER DELIVERY
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 36: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 36.1:
The Compliance Certification activity will be performed for the Facility.

Item 36.2:
Compliance Certification shall include the following monitoring:

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Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each boiler which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- date and time of day
- observer's name
- identity of emission point
- weather condition
- was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the

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stack.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 37: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 37.1:

The Compliance Certification activity will be performed for the Facility.

Item 37.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

Records of visible emissions observations (or any follow-up method 9 tests), investigations and corrective actions will be kept on-site. Should the Department determine that permittee's record keeping format is

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inadequate to demonstrate compliance with this condition, it shall provide written notice to the permittee stating the inadequacies, and permittee shall have 90 days to revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 1-25: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1) (i)

Item 1-25.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001	Emission Point: 00001
Process: GAS	Emission Source: 0091A

Emission Unit: U-00001	Emission Point: 00001
Process: GAS	Emission Source: 0091B

Emission Unit: U-00001	Emission Point: 00001
Process: GAS	Emission Source: 0094A

Emission Unit: U-00001	Emission Point: 00001
Process: GAS	Emission Source: 0094B

Emission Unit: U-00001	Emission Point: 00001
Process: OL6	Emission Source: 0091A

Emission Unit: U-00001	Emission Point: 00001
Process: OL6	Emission Source: 0091B

Emission Unit: U-00001	Emission Point: 00001
Process: OL6	Emission Source: 0094A

Emission Unit: U-00001	Emission Point: 00001
Process: OL6	Emission Source: 0094B

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

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Item 1-25.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Albert Einstein College of Medicine is required to perform testing 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) to verify the NOx emission limit compliance. A mid-size boiler is a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. All four boilers operate on natural gas (Process GAS) and on #6 fuel oil (Process OL6). Process OL6 will terminate on or before 7/1/2014 and will be replaced with #2 fuel oil (Process OL2).

Prior to July 1, 2014, the owner/operator of mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers operating on residual oil/natural gas have a limit of 0.30 pounds of NOx per million Btus under the NOx RACT plan for mid-size boilers.

Emission test requirements: The owner/operator of a source required to conduct an emission test under subdivision (c) of 6 NYCRR 227-2.6 must:

1. Submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the Department; and
2. 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 must follow the procedures set forth in Part 202 of this Title.
 - i. For mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the Department.
3. Submit a compliance test report containing the results of the emission test to the Department no later than 60 days after the completion of the emission test.

This condition applies to the four mid-size boilers, the two 91 MM Btu/hr each Keeler boilers (Emission Sources

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0091A & 0091B), and the two 94 MM Btu/hr each Babcock & Wilcox boilers (Emission Sources 0094A & 0094B) to verify the NOx emission limit compliance.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.30 pounds per million Btus

Reference Test Method: 40 CFR Part 60, Appendix A, Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-26: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c) (1) (ii)

Item 1-26.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: GAS	Emission Point: 00001 Emission Source: 0094B
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0091B
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0094A
Emission Unit: U-00001 Process: OL2	Emission Point: 00001 Emission Source: 0094B
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0091A
Emission Unit: U-00001 Process: OL6	Emission Point: 00001 Emission Source: 0091B

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Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0094A

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0094B

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

Item 1-26.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Albert Einstein College of Medicine is required to perform testing 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) to verify the NO_x emission limit compliance. A mid-size boiler is a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour. All four boilers operate on natural gas (Process GAS) and on #2 fuel oil (Process OL2). Process OL2 will will replace #6 fuel oil (Process OL6) and will begin prior to 7/1/2014 or earlier when Process OL6 terminates.

On or after July 1, 2014, the owner/operator of mid-size boilers (> 25 and equal to or <100 MM Btu/hr) boilers operating on distillate oil/natural gas have a new limit of 0.08 pounds of NO_x per million Btus under the NO_x RACT plan for mid-size boilers.

Emission test requirements: The owner/operator of a source required to conduct an emission test under subdivision (c) of 6 NYCRR 227-2.6 must:

1. Submit a compliance test protocol to the Department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. 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 NO_x limit in section 227-2.4 of this Subpart, and must follow the procedures set forth in Part 202 of this Title.
 - i. For mid-size boilers (> 25 and equal to or <100

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MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the Department.

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

This condition 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) to verify the NOx emission limit compliance.

2014 NOx RACT rule Plan - Fuel Switching Compliance Option:

A facility currently firing # 6 fuel oil/gas can opt to switch to #2 fuel oil/gas and still will require to meet the new NOx emission limit of # 6 fuel oil/gas only and not the new # 2 fuel oil/gas emission limit, even though they will be firing #2 fuel oil, which is a cleaner fuel and it is their option to burn. For example, a mid-size boiler currently firing #6 fuel oil/gas will require to meet 0.2 lbs/MMBtu upon switching to # 2 fuel oil/gas and not the 0.08 lb/MMBtu which is for the #2 fuel oil.

Please see related Condition # 1-30 for 6 NYCRR 227-2.5(a).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.20 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A, Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-27: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (d)

Item 1-27.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00003

Process: NGP

Emission Point: 00006

Emission Source: BL41A

Emission Unit: U-00003

Emission Point: 00006

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Process: NGP

Emission Source: BL41B

Emission Unit: U-00003

Emission Point: 00006

Process: NO2

Emission Source: BL41B

Emission Unit: U-00003

Emission Point: 00007

Process: NO4

Emission Source: BL84A

Emission Unit: U-00003

Emission Point: 00007

Process: NO4

Emission Source: BL84B

Regulated Contaminant(s):

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

Item 1-27.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of a small boiler, small combustion turbine, or small internal combustion engine must perform an annual tune-up of their equipment. This tune-up should be performed in accordance with the requirements of the DAR-5 guidance document. Records of each tune-up must be kept on-site for a minimum of five years.

This condition applies to the 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).

Monitoring Frequency: ANNUALLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 38: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 38.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002

Emission Point: 00002

Process: G01

Emission Source: CDRP1

Emission Unit: U-00002

Emission Point: 00003

Process: G02

Emission Source: CDRP2

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Emission Unit: U-00002
Process: G34

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: G34

Emission Point: 00005
Emission Source: CDRP4

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

Item 38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Albert Einstein College of Medicine (AECOM) is an existing Air Title V facility that 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 Ullmann 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 (NO_x) emissions from the four generators will remain below 22.5 tpy for any 12-month rolling period. The NO_x emissions will be calculated based on the May 13 & 14, 2009 stack test results. All four generators are large stationary internal combustion, lean burn, and compression ignition. All four generators were built in 2005 or before, and therefore; 40 CFR Part 60, Subpart IIII is not applicable.

The Title V Renewal #2 application includes the participation of four emergency generators in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NO_x) emissions to 22.5 tpy. It also includes a request for granting a variance from the NO_x emissions limit of 2.3 grams per brake horsepower-hour beginning April 1, 2005 for economic reasons. A variance from full compliance with NO_x emissions limits effective April 1, 2005 (2.3 grams/BHP-hr) is understood to be part of this Title V renewal and is relevant to Compliance Certification for 6 NYCRR 227-2.4(f)(2)(ii) and applies to the three engine-generators (Emission Sources CDRP2, CDRP3 & CDRP4 in Emission Unit U-00002. The variance requests that the NO_x emissions limit from the May 13 & 14, 2009 stack testing be that limit in the permit.

The permit application included a NO_x RACT variance

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analysis based on Air Guide 20 to approve a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NO_x above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr). Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 in Emission Unit U-00002 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4) in Emission Unit U-00002. The NO_x variance is based on the results from the stack test that was conducted on May 13 & 14, 2009. The results of emission testing of the engines yielded the following individual engine NO_x emissions rate:

Generator Model/Year	Building NO _x Emissions	Power Output	
CDRP1 D399/1984	Chanin Not stack tested yet	900 KW	CAT
CDRP2 3512/1984	Ullmann 7.3 gm/bhp-hr	1,000 KW	CAT
CDRP3 3516/2005	Price Center 4.0 gm/bhp-hr	1,750 KW	CAT
CDRP4 3516/2005	Price Center 4.3 gm/bhp-hr	1,750 KW	CAT

The results of all tests conducted on all engines demonstrate that the emissions from all the engines were in compliance with the applicable standard of 9.0 grams per brake horsepower of NO_x. To account for variability, the Department is setting the NO_x emissions limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NO_x emissions limit at 4.5 gm/bhp-hr for the two 1,750 KW each CAT 3516 engines in the Price Center (Emission Sources CDRP3 & CDRP4).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 1-28: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-28.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

Regulated Contaminant(s):

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

Item 1-28.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Department has approved the NO_x RACT variance of 7.5 gm/bhp-hr for CDRP2, 4.5 gm/bhp-hr for CDRP3 & CDRP4 on the Caterpillar non-emergency generator engines (Emission Sources CDRP2, CDRP3 & CDRP4) that failed to meet the 2.3 gm/bhp-hr NO_x emission limit on oil firing scenario during the last attack testing conducted on May 13 & 14, 2009. Einstein investigated the available options for reducing the NO_x emission limit, but the economic impact for reducing the NO_x emission limit was determined to be not feasible.

Among the three non-emergency generators, two are identical Caterpillar 3516 (Emission Sources CDRP3 & CDRP4), each rated at 1750 KW, manufactured in 2008, located in the Price Center Building. The third generator is a Caterpillar 3512 (Emission Source CDRP2), 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 operate 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.

Einstein is required to stack test the 900 KW Caterpillar D399 (Emission Source CDRP1) for NO_x emission limit during the term of this permit ONLY if Emission Source CDRP1 participates or is utilized in the CDRP/SCR program(s).

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal

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to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.5 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-29: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-29.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002

Emission Point: 00003

Process: GEN

Emission Source: CDRP2

Regulated Contaminant(s):

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

Item 1-29.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The Department has approved the NO_x RACT variance of 7.5 gm/bhp-hr for CDRP2, 4.5 gm/bhp-hr for CDRP3 & CDRP4 on the Caterpillar non-emergency generator engines (Emission Sources CDRP2, CDRP3 & CDRP4) that failed to meet the 2.3 gm/bhp-hr NO_x emission limit on oil firing scenario during the last attack testing conducted on May 13 & 14, 2009. Einstein investigated the available options for reducing the NO_x emission limit, but the economic impact for reducing the NO_x emission limit was determined to be not feasible.

Among the three non-emergency generators, two are identical Caterpillar 3516 (Emission Sources CDRP3 & CDRP4), each rated at 1750 KW, manufactured in 2008, located in the Price Center Building. The third generator is a Caterpillar 3512 (Emission Source CDRP2), rated at

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1000 KW, located in the Ullmann Research Center. All three generators are permitted under the Title V permit and have been granted NOx RACT variance. These generators will continue to operate based on the variance granted (7.5 g/bhp-hr for CDRP2, 4.5 g/bhp-hr for CDRP3 & CDRP4). Thus, comply with the NOx RACT requirements.

Einstein is required to stack test the 900 KW Caterpillar D399 (Emission Source CDRP1) for NOx emission limit during the term of this permit ONLY if Emission Source CDRP1 participates or is utilized in the CDRP/SCR program(s).

This condition applies to stationary internal combustion engines that have a maximum mechanical output rating equal to or greater than 200 brake horsepower in a severe ozone nonattainment area or 400 brake horsepower outside a severe ozone nonattainment area and are fired by distillate oil. The owner or operator is required to submit a compliance testing protocol to the department for approval at least 30 days prior to testing. The owner or operator will maintain all records on-site for a minimum of five years.

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 7.5 grams per brake horsepower-hour

Reference Test Method: 40 CFR 60 Appendix A - Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-30: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-30.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: GAS

Emission Point: 00001
Emission Source: 0091A

Emission Unit: U-00001
Process: GAS

Emission Point: 00001
Emission Source: 0091B

Emission Unit: U-00001
Process: GAS

Emission Point: 00001
Emission Source: 0094A

Emission Unit: U-00001
Process: GAS

Emission Point: 00001
Emission Source: 0094B

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Emission Unit: U-00001
Process: OL2

Emission Point: 00001
Emission Source: 0091A

Emission Unit: U-00001
Process: OL2

Emission Point: 00001
Emission Source: 0091B

Emission Unit: U-00001
Process: OL2

Emission Point: 00001
Emission Source: 0094A

Emission Unit: U-00001
Process: OL2

Emission Point: 00001
Emission Source: 0094B

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0091A

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0091B

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0094A

Emission Unit: U-00001
Process: OL6

Emission Point: 00001
Emission Source: 0094B

Regulated Contaminant(s):

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

Item 1-30.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

2014 NOx RACT rule Plan - Fuel Switching Compliance
Option:

This condition applies to the four mid-size boilers. 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.

A mid-size boiler is defined as a boiler with a maximum heat input capacity greater than 25 million Btu per hour and equal to or less than 100 million Btu per hour.

A facility currently firing # 6 fuel oil/gas can opt to switch to #2 fuel oil/gas and still will require to meet the new NOx emission limit of # 6 fuel oil/gas only and not the new # 2 fuel oil/gas emission limit, even though they will be firing #2 fuel oil, which is a cleaner fuel and it is their option to burn. For example, a mid-size

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boiler currently firing #6 fuel oil/gas will require to meet 0.2 lbs/MMBtu upon switching to # 2 fuel oil/gas and not the 0.08 lb/MMBtu which is for the #2 fuel oil.

The four mid-size boilers (Emission Sources 0094A, 0094B, 0091A & 0091B) burning oil/gas subject to 6 NYCRR 227-2.4(c)(1)(ii) meet the NOx emission limit of 0.08 pounds of NOx per million Btus on or after July 1, 2014, may commit to burning a cleaner fuel between May 1st and September 30th of each year. Fuel switching must result in quantifiable annual NOx emissions equal to or less than the NOx emissions expected if the emission source complied with the applicable presumptive RACT emission limits set forth in 6 NYCRR 227-2.4(c)(1)(ii) of 0.08 pounds of NOx per million Btus.

Please see related Condition # 1-26 for 6 NYCRR 227-2.4(c)(1)(ii).

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.20 pounds per million Btus

Reference Test Method: 40 CFR 60 Appendix A, Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 39: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 39.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: G01

Emission Point: 00002
Emission Source: CDRP1

Emission Unit: U-00002
Process: G02

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: G34

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: G34

Emission Point: 00005
Emission Source: CDRP4

Regulated Contaminant(s):

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

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Item 39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The Albert Einstein College of Medicine (AECOM) is proposing that four (4) emergency generators be included into the Coordinated Demand Response Program (CDRP) by capping total Oxides of Nitrogen (NOx) emissions to 22.5 TPY. On June 5, 2009, the facility has submitted a NOx RACT variance analysis based on Air-Guide 20 to be approved for a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NOx above 2.3 gm/bhp-hr, but below 9.0 gm/bhp-hr). Currently, only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 (the 900 KW CAT in the Chanin Building) will not participate in the CDRP program until it is stack tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only. The variance is based on the results from the stack test that was conducted on May 13 and May 14, 2009. A summary of the stack test results is listed below.

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, the evaluation of fuel switching, selective catalytic reduction or system averaging as compliance options. This alternative RACT emission limit must be approved by the Department and by the Administrator as a revision to the State Implementation Plan.

The participation of four emergency generators in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NOx) emissions to 22.5 tpy. The permit application included a NOx RACT variance analysis based on Air Guide 20 to be approved for a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NOx above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr).

Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4). The NOx variance is based on the results

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from the stack test that was conducted on May 13 & 14, 2009. The results were as follow:

Generator Model/Year	Building	Power Output	NOx Emissions
CDRP1 D399/1984	Chanin	900 KW	CAT
	Not stack tested yet		
CDRP2 3512/1984	Ullmann	1,000 KW	CAT
	7.3 gm/bhp-hr		
CDRP3 3516/2005	Price Center	1,750 KW	CAT
	4.0 gm/bhp-hr		
CDRP4 3516/2005	Price Center	1,750 KW	CAT
	4.3 gm/bhp-hr		

On June 5, 2009 Albert Einstein College of Medicine has submitted Engine NOx RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NOx emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NOx emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current four diesel engines use. To account for variability, the Department is setting the NOx emissions limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NOx emissions limit at 4.5 gm/bhp-hr for the two 1,750 KW each CAT 3516 engines in the Price Center (Emission Sources CDRP3 & CDRP4).

At this time, three of the four diesel engine generators will be delegated to participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program upon the issuance of this permit. Each of the three diesel engine generator will be limited to 500 hour per year and will provide electricity to the facility. There are no emission increases and therefore no exceedances of NSR or PSD thresholds, and thus no applicability. The facility requests an extension of the current engine operations and the current actual NOx emissions as RACT. Intensive capital investment into the engines, other than that which would contribute to the equipment replacement project at this time, would be disadvantageous to the project. Technologies that could meet the new NOx limits would require significant capital investment and would be

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counter-effective and counter-productive in the long term, and provide nowhere near the efficiency of reducing NO_x as would the repowering (equipment replacement) project. The analysis concluded that no NO_x control technologies were economically feasible for any of the three generators at the facility. This report was submitted to comply with a variance request to the NO_x emission limits stated above pursuant to Part 621, Uniform Procedures act.

Application for renewal of this Title V Operating permit includes a request for granting a variance from the above mentioned NO_x emissions limit of 2.3 grams per brake horsepower-hour for the reasons provided. It also provides for establishing a NO_x emissions limit of 9.0 grams per brake horsepower-hour for all of the four reciprocating engines identified as CDRP1, CDRP2, CDRP3 and CDRP4 in Emission Unit U-00002. The four engines are rated at 900, 1000, 1750 and 1750 kilowatts; respectively (1206, 1340, 2345 and 2345 hp; respectively). Three of the four engines are scheduled to participate in the Special Case Resources (SCR) of the New York Independent System Operator (NYISO) or any other demand response program upon the issuance of this permit. With the issuance of this permit, the NO_x RACT Variance of 9.0 grams per brake horsepower-hour for each of the three reciprocating engines, identified as CDRP2, CDRP3 and CDRP4 in Emission Unit U-00002 has been accepted by the Department.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 40: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.8, NSPS Subpart A

Item 40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00001
Process: OIL

Emission Point: 00001
Emission Source: 0094A

Emission Unit: U-00001
Process: OIL

Emission Point: 00001
Emission Source: 0094B

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Regulated Contaminant(s):

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

Item 40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Stack performance tests shall be performed within 60 days
after achieving the maximum production rate but not later
than 180 days after initial start-up.

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-31: General Provisions

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:40CFR 60.4218, NSPS Subpart IIII

Item 1-31.1:

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

Condition 1-32: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:40CFR 63.6585, Subpart ZZZZ

Item 1-32.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-32.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The facility operates stationary RICEs at an area source
of HAP emissions, it is therefore applicable to the
requirements of Subpart ZZZZ. Specifically, all an
existing stationary RICEs with a site rating of greater
than 500 brake HP located at the site.

The facility shall keep a list of of all engines
applicable to the regulation, locations of each engine and
a list of the hours of operation; updated
semi-annually.

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

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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.)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 1-33: Compliance Certification
Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:40CFR 63.6603(a), Subpart ZZZZ

Item 1-33.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-33.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency and black start compression ignition stationary RICE located at an area source of HAP emissions must comply with the following maintenance procedures:

- (1) Change oil and filter every 500 hours of operation or annually, whichever comes first;
- (2) Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first, and replace as necessary;
- (3) Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

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

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.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Condition 1-34: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 63.6625(e), Subpart ZZZZ

Item 1-34.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-34.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of any of the following stationary RICE must operate and maintain the stationary RICE and after-treatment control device (if any) according to the manufacturer's emission-related written instructions or develop a 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:

- (1) An existing stationary RICE with a site rating of less than 100 brake horsepower located at a major source of HAP emissions;
- (2) An existing emergency or black start stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions;
- (3) An existing emergency or black start stationary RICE located at an area source of HAP emissions;
- (4) An existing non-emergency, non-black start stationary compression ignition RICE with a site rating less than or equal to 300 brake horsepower located at an area source of HAP emissions;
- (5) An existing non-emergency, non-black start 2 stroke lean burn stationary RICE located at an area source of HAP emissions;
- (6) An existing non-emergency, non-black start stationary RICE located at an area source of HAP emissions which combusts landfill or digester gas equivalent to 10 percent or more of the gross heat input on an annual basis;
- (7) An existing non-emergency, non-black start 4 stroke lean burn stationary RICE with a site rating less than or equal to 500 brake horsepower located at an area source of

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HAP emissions;

(8) An existing non-emergency, non-black start 4 stroke rich burn stationary RICE with a site rating less than or equal to 500 brake horsepower located at an area source of HAP emissions;

(9) An existing, non-emergency, non-black start 4 stroke lean burn stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that is operated 24 hours or less per calendar year; and

(10) An existing, non-emergency, non-black start 4 stroke rich burn stationary RICE with a site rating greater than 500 brake horsepower located at an area source of HAP emissions that is operated 24 hours or less per calendar year.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-35: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 63.6640(f), Subpart ZZZZ

Item 1-35.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-35.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary RICE must operate the emergency stationary RICE according to the requirements in 40 CFR 63.6640(f)(1) through (4). In order for the engine to be considered an emergency stationary RICE under subpart ZZZZ, any operation other than emergency operation, maintenance and testing, emergency demand response, and operation in non-emergency situations for 50 hours per year, as described in 40 CFR 63.6640(f)(1) through (4), is prohibited. If the owner or operator does not operate the engine according to the requirements in 40 CFR 63.6640(f)(1) through (4), the engine will not be considered an emergency engine under subpart ZZZZ and must meet all requirements for non-emergency engines.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

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DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

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

Condition 1-36: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 63.6640(f), Subpart ZZZZ

Item 1-36.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002

Process: GEN

Emission Point: 00002

Emission Source: CDRP1

Emission Unit: U-00002

Process: GEN

Emission Point: 00003

Emission Source: CDRP2

Emission Unit: U-00002

Process: GEN

Emission Point: 00004

Emission Source: CDRP3

Emission Unit: U-00002

Process: GEN

Emission Point: 00005

Emission Source: CDRP4

Item 1-36.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an existing emergency stationary RICE with a site rating of less than or equal to 500 brake horsepower located at a major source of HAP emissions, a new or reconstructed emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed on or after June 12, 2006, or an existing emergency stationary RICE located at an area source of HAP emissions must operate the emergency stationary RICE according to the requirements in paragraphs (i) through (iii) below. Any operation other than emergency operation, maintenance and testing, and operation in non-emergency situations for 50 hours per year, as described in paragraphs (i) through (iii) below, is prohibited. If you do not operate the engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine under this subpart and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency



stationary RICE in emergency situations.

(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 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.

(iii) The facility may operate the emergency stationary RICE up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance and testing. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial arrangement with another entity; except that owners and operators may operate the emergency engine for a maximum of 15 hours per year as part of a demand response program if the regional transmission organization or equivalent balancing authority and transmission operator has determined there are emergency conditions that could lead to a potential electrical blackout, such as unusually low frequency, equipment overload, capacity or energy deficiency, or unacceptable voltage level. The engine may not be operated for more than 30 minutes prior to the time when the emergency condition is expected to occur, and the engine operation must be terminated immediately after the facility is notified that the emergency condition is no longer imminent. The 15 hours per year of demand response operation are counted as part of the 50 hours of operation per year provided for non-emergency situations. The supply of emergency power to another entity or entities pursuant to financial arrangement is not limited by this paragraph, as long as the power provided by the financial arrangement is limited to emergency power.

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

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Subpart ZZZZ related maintenance requirements will be performed (oil change, filters, tune-up, etc.)

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

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

Condition 1-37: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 63.6640(f), Subpart ZZZZ

Item 1-37.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-37.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary RICE with a site rating of more than 500 brake horsepower located at a major source of HAP emissions that was installed prior to June 12, 2006 must operate the engine according to the conditions described in paragraphs (i) through (iii) below. If he/she does not operate the engine according to the requirements in paragraphs (i) through (iii) below, the engine will not be considered an emergency engine under subpart ZZZZ and will need to meet all requirements for non-emergency engines.

(i) There is no time limit on the use of emergency stationary RICE in emergency situations.

(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 the manufacturer, the vendor, or the insurance company associated with the engine. Required testing of such units should be minimized, but there is no time limit on the use of emergency stationary RICE in emergency situations and for routine testing and maintenance.

(iii) The facility may operate the emergency stationary RICE for an additional 50 hours per year in non-emergency situations. The 50 hours per year for non-emergency situations cannot be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply power as part of a financial

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arrangement with another entity.

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.)

The three (3) generators at the Albert Einstein College of Medicine participate in the CDRP program and fall under the definition of 6 NYCRR 201-6.5(c) - emergency defence provision and emergency generators that participate in the Local Reliability program as defined under 40 CFR 63.6640(f)(2)(iii). Therefore, the 100 hours exception for Subpart ZZZZ that does not require CO reduction, the 50 hours of the 100 hours may be used towards Local Reliability (CDRP) in exchange for monetary benefit. The balance of the 100 hours may be used for testing and inspection purposes.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

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

Condition 1-38: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 63.6665, Subpart ZZZZ

Item 1-38.1:

The Compliance Certification activity will be performed for the Facility.

Item 1-38.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Table 8 of 40 CFR 63 Subpart ZZZZ shows which parts of the General Provisions 40 CFR 63.1 through 40 CFR 63.15 apply to this facility. Facility is responsible for ensuring they comply with all General Provisions contained in Table 8.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

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Reports due 30 days after the reporting period.
The initial report is due 10/30/2013.
Subsequent reports are due every 6 calendar month(s).

**** Emission Unit Level ****

Condition 41: **Emission Point Definition By Emission Unit**
 Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-6

Item 41.1(From Mod 1):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00001

Emission Point: 00001

Height (ft.): 225

Diameter (in.): 144

NYTMN (km.): 4522.523 NYTME (km.): 597.233 Building: 2

Item 41.2(From Mod 1):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00002

Emission Point: 00002

Height (ft.): 133

Diameter (in.): 12

NYTMN (km.): 4522.523 NYTME (km.): 597.233 Building: 3

Emission Point: 00003

Height (ft.): 10

Diameter (in.): 12

NYTMN (km.): 4522.523 NYTME (km.): 597.233 Building: 4

Emission Point: 00004

Height (ft.): 128

Diameter (in.): 16

NYTMN (km.): 4522.523 NYTME (km.): 597.233 Building: 5

Emission Point: 00005

Height (ft.): 128

Diameter (in.): 16

NYTMN (km.): 4522.523 NYTME (km.): 597.233 Building: 5

Item 41.3(From Mod 1):

The following emission points are included in this permit for the cited Emission Unit:

Emission Unit: U-00003

Emission Point: 00006

Height (ft.): 63

Diameter (in.): 20

NYTMN (km.): 4522.523 NYTME (km.): 597.233 Building: 6

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Emission Point: 00007

Height (ft.): 63

Diameter (in.): 20

NYTMN (km.): 4522.523

NYTME (km.): 597.233

Building: 7

Condition 42: Process Definition By Emission Unit

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-6

Item 42.1(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: GAS

Source Classification Code: 1-03-006-02

Process Description:

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.

Emission Source/Control: 0091A - Combustion

Design Capacity: 91 million Btu per hour

Emission Source/Control: 0091B - Combustion

Design Capacity: 91 million Btu per hour

Emission Source/Control: 0094A - Combustion

Design Capacity: 94 million Btu per hour

Emission Source/Control: 0094B - Combustion

Design Capacity: 94 million Btu per hour

Item 42.2(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: OL2

Source Classification Code: 1-03-004-02

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Process Description:

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 (Process OL6) will terminate. All four boilers are located in the Powerhouse and are dual-fuel fired, natural gas and #2 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.

Emission Source/Control: 0091A - Combustion

Design Capacity: 91 million Btu per hour

Emission Source/Control: 0091B - Combustion

Design Capacity: 91 million Btu per hour

Emission Source/Control: 0094A - Combustion

Design Capacity: 94 million Btu per hour

Emission Source/Control: 0094B - Combustion

Design Capacity: 94 million Btu per hour

Item 42.3(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: OL6

Source Classification Code: 1-03-004-02

Process Description:

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

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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.

Emission Source/Control: 0091A - Combustion
Design Capacity: 91 million Btu per hour

Emission Source/Control: 0091B - Combustion
Design Capacity: 91 million Btu per hour

Emission Source/Control: 0094A - Combustion
Design Capacity: 94 million Btu per hour

Emission Source/Control: 0094B - Combustion
Design Capacity: 94 million Btu per hour

Item 42.4(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: GEN

Source Classification Code: 1-03-005-02

Process Description:

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.

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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 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 Source/Control: CDRP1 - Combustion
Design Capacity: 900 kilowatts

Emission Source/Control: CDRP2 - Combustion
Design Capacity: 1,000 kilowatts

Emission Source/Control: CDRP3 - Combustion
Design Capacity: 1,750 kilowatts

Emission Source/Control: CDRP4 - Combustion
Design Capacity: 1,750 kilowatts

Item 42.5(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003

Process: NGP

Source Classification Code: 1-03-006-03

Process Description:

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



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 & NO4 and Emission Sources BL41A, BL41B, BL84A & BL84B are associated with Emission Unit U-00003.

Emission Source/Control: BL41A - Combustion
Design Capacity: 4.1 million Btu per hour

Emission Source/Control: BL41B - Combustion
Design Capacity: 4.1 million Btu per hour

Item 42.6(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003

Process: NO2

Source Classification Code: 1-02-005-03

Process Description:

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 & NO4 and Emission Sources BL41A, BL41B, BL84A & BL84B are associated with Emission Unit U-00003.

Emission Source/Control: BL41B - Combustion
Design Capacity: 4.1 million Btu per hour

Item 42.7(From Mod 1):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00003

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Process: NO4

Source Classification Code: 1-03-005-04

Process Description:

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 Source/Control: BL84A - Combustion

Design Capacity: 8.4 million BTUs per hour

Emission Source/Control: BL84B - Combustion

Design Capacity: 8.4 million Btu per hour

Item 42.8(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00001

Process: OIL

Source Classification Code: 1-03-004-02

Process Description:

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.

Emission Source/Control: 0091A - Combustion

Design Capacity: 91 million Btu per hour

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Emission Source/Control: 0091B - Combustion
Design Capacity: 91 million Btu per hour

Emission Source/Control: 0094A - Combustion
Design Capacity: 94 million Btu per hour

Emission Source/Control: 0094B - Combustion
Design Capacity: 94 million Btu per hour

Item 42.9(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: G01

Source Classification Code: 2-02-004-01

Process Description:

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.

Emission Source/Control: CDRP1 - Combustion
Design Capacity: 900 kilowatts

Item 42.10(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: G02

Source Classification Code: 2-02-004-01

Process Description:

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.

Emission Source/Control: CDRP2 - Combustion
Design Capacity: 1,000 kilowatts

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Item 42.11(From Mod 0):

This permit authorizes the following regulated processes for the cited Emission Unit:

Emission Unit: U-00002

Process: G34

Source Classification Code: 2-02-004-01

Process Description:

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.

Emission Source/Control: CDRP3 - Combustion

Design Capacity: 1,750 kilowatts

Emission Source/Control: CDRP4 - Combustion

Design Capacity: 1,750 kilowatts

Condition 43: Emission Unit Permissible Emissions

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR Subpart 201-7

Item 43.1:

The sum of emissions from all regulated processes specified in this permit for the emission unit cited

shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00001

CAS No: 007446095 (From Mod 1)

Name: SULFUR DIOXIDE

PTE(s): 1,019,634 pounds per year

116.2 pounds per hour

CAS No: 0NY210000 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 135.7 pounds per hour

1,346,547 pounds per year

Emission Unit: U-00002

CAS No: 007446095 (From Mod 1)

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Name: SULFUR DIOXIDE

PTE(s): 10.908 pounds per hour

95,554 pounds per year

CAS No: 0NY210000 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 92.36 pounds per hour

809,113 pounds per year

Emission Unit: U-00003

CAS No: 007446095 (From Mod 1)

Name: SULFUR DIOXIDE

PTE(s): 46,211 pounds per year

5.2752 pounds per hour

CAS No: 0NY210000 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 53,962 pounds per year

6.16 pounds per hour

Condition 44: Process Permissible Emissions

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR Subpart 201-7

Item 44.1:

The sum of emissions from the regulated process cited shall not exceed the following Potential to Emit (PTE) rates for each regulated contaminant:

Emission Unit: U-00001

Process: GAS

CAS No: 007446-09-5 (From Mod 1)

Name: SULFUR DIOXIDE

PTE(s): 0.22 pounds per hour

1,897 pounds per year

CAS No: 0NY210-00-0 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 18.05 pounds per hour

158,107 pounds per year

Emission Unit: U-00001

Process: OIL

CAS No: 007446-09-5 (From Mod 0)

Name: SULFUR DIOXIDE

PTE(s): 116.2 pounds per hour

1,017,737 pounds per year

CAS No: 0NY210-00-0 (From Mod 0)

Name: OXIDES OF NITROGEN

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



PTE(s): 135.7 pounds per hour
1,188,440 pounds per year

Emission Unit: U-00001 Process: OL2

CAS No: 007446-09-5 (From Mod 1)
Name: SULFUR DIOXIDE
PTE(s): 82.99 pounds per hour
726,955 pounds per year

CAS No: 0NY210-00-0 (From Mod 1)
Name: OXIDES OF NITROGEN
PTE(s): 74 pounds per hour
648,240 pounds per year

Emission Unit: U-00001 Process: OL6

CAS No: 007446-09-5 (From Mod 1)
Name: SULFUR DIOXIDE
PTE(s): 116.2 pounds per hour
1,017,737 pounds per year

CAS No: 0NY210-00-0 (From Mod 1)
Name: OXIDES OF NITROGEN
PTE(s): 135.7 pounds per hour
1,188,440 pounds per year

Emission Unit: U-00002 Process: G01

CAS No: 007446-09-5 (From Mod 0)
Name: SULFUR DIOXIDE
PTE(s): 1.818 pounds per hour
15,926 pounds per year

CAS No: 0NY210-00-0 (From Mod 0)
Name: OXIDES OF NITROGEN
PTE(s): 22.302 pounds per hour
195,366 pounds per year

Emission Unit: U-00002 Process: G02

CAS No: 007446-09-5 (From Mod 0)
Name: SULFUR DIOXIDE
PTE(s): 2.02 pounds per hour
17,695 pounds per year

CAS No: 0NY210-00-0 (From Mod 0)
Name: OXIDES OF NITROGEN
PTE(s): 15.34 pounds per hour
134,378 pounds per year

Emission Unit: U-00002 Process: G34

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CAS No: 007446-09-5 (From Mod 0)

Name: SULFUR DIOXIDE

PTE(s): 7.07 pounds per hour

61,933 pounds per year

CAS No: 0NY210-00-0 (From Mod 0)

Name: OXIDES OF NITROGEN

PTE(s): 54.723 pounds per hour

479,369 pounds per year

Emission Unit: U-00002

Process: GEN

CAS No: 007446-09-5 (From Mod 1)

Name: SULFUR DIOXIDE

PTE(s): 10.908 pounds per hour

95,554 pounds per year

CAS No: 0NY210-00-0 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 92.34 pounds per hour

809,113 pounds per year

Emission Unit: U-00003

Process: NGP

CAS No: 007446-09-5 (From Mod 1)

Name: SULFUR DIOXIDE

PTE(s): 0.015 pounds per hour

131.4 pounds per year

CAS No: 0NY210-00-0 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 2.5 pounds per hour

21,900 pounds per year

Emission Unit: U-00003

Process: NO4

CAS No: 007446-09-5 (From Mod 1)

Name: SULFUR DIOXIDE

PTE(s): 5.2752 pounds per hour

46,210.752 pounds per year

CAS No: 0NY210-00-0 (From Mod 1)

Name: OXIDES OF NITROGEN

PTE(s): 6.16 pounds per hour

53,961.6 pounds per year

Condition 46: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

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Item 46.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0091A

Regulated Contaminant(s):

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

Item 46.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NO_x emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NO_x emissions to demonstrate compliance with this part.

This condition applies to the 91 MM Btu/hr Keeler NB 3836 boiler (Emission Source 0091A). The NO_x RACT for boilers operating on natural gas is a limit of 0.10 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NO _x Emission Operating on
	NO _x Emission Operating on
	Natural Gas (lb/MM
Btu)	#6 Fuel Oil (lb/MM
Btu)	

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0091A 0.0831

0.2610

0091B 0.0865

0.2748

0094A 0.0866

0.2606

0094B 0.0697

0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 49: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 49.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0091B

Regulated Contaminant(s):

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

Item 49.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NOx emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

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The following unit shall perform testing to verify NOx emissions to demonstrate compliance with this part.

This condition applies to the 91 MM Btu/hr Keeler NB 4669 boiler (Emission Source 0091B). The NOx RACT for boilers operating on natural gas is a limit of 0.10 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NOx Emission Operating on NOx Emission Operating on Natural Gas (lb/MM Btu)	#6 Fuel Oil (lb/MM Btu)
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0091A	0.0831
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0.2610

0091B	0.0865
-------	--------

0.2748

0094A	0.0866
-------	--------

0.2606

0094B	0.0697
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0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 52: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 52.1:

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The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0094A

Regulated Contaminant(s):

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

Item 52.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NO_x emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NO_x emissions to demonstrate compliance with this part.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094A). The NO_x RACT for boilers operating on natural gas is a limit of 0.10 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NO _x Emission Operating on
	NO _x Emission Operating on
	Natural Gas (lb/MM
Btu)	#6 Fuel Oil (lb/MM
Btu)	

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0091A 0.0831

0.2610

0091B 0.0865

0.2748

0094A 0.0866

0.2606

0094B 0.0697

0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 54: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 54.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0094A

Item 54.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 55: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 55.1:

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The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0094A

Item 55.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 57: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 57.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0094B

Regulated Contaminant(s):

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

Item 57.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NO_x emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A

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mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NOx emissions to demonstrate compliance with this part.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094B). The NOx RACT for boilers operating on natural gas is a limit of 0.10 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NOx Emission Operating on Natural Gas (lb/MM Btu)	NOx Emission Operating on #6 Fuel Oil (lb/MM Btu)
--------	---	---

0091A	0.0831	
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0.2610		
--------	--	--

0091B	0.0865	
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0.2748		
--------	--	--

0094A	0.0866	
-------	--------	--

0.2606		
--------	--	--

0094B	0.0697	
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0.2779		
--------	--	--

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

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Condition 59: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 59.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0094B

Item 59.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 60: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 60.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: GAS

Emission Source: 0094B

Item 60.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 61: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 61.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Item 61.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired boilers which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack for each boiler which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).
- 2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:
 - date and time of day
 - observer's name
 - identity of emission point
 - weather condition
 - was a plume observed?

Inclement weather conditions shall be recorded for those days when observations are prohibited. This logbook must be retained at the facility for five (5) years after the date of the last entry.

- 3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil

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(the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 62: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 62.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Item 62.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 63: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 63.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

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Regulated Contaminant(s):

CAS No: 000000-00-0 PARTICULATES

Item 63.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 65: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 65.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0091A

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Facility DEC ID: 2600500133



Regulated Contaminant(s):

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

Item 65.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NO_x emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NO_x emissions to demonstrate compliance with this part.

This condition applies to the 91 MM Btu/hr Keeler NB 3836 boiler (Emission Source 0091A). The NO_x RACT for boilers operating on residual oil is a limit of 0.30 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NO _x Emission Operating on
	NO _x Emission Operating on
	Natural Gas (lb/MM
Btu)	#6 Fuel Oil (lb/MM
Btu)	

0091A	0.0831
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0.2610

0091B	0.0865
-------	--------

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0.2748

0094A 0.0866

0.2606

0094B 0.0697

0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 68: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 68.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0091B

Regulated Contaminant(s):

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

Item 68.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NO_x emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NO_x emissions to demonstrate compliance with this part.

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This condition applies to the 91 MM Btu/hr Keeler NB 4669 boiler (Emission Source 0091B). The NO_x RACT for boilers operating on residual oil is a limit of 0.30 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NO _x Emission Operating on
	NO _x Emission Operating on
	Natural Gas (lb/MM
Btu)	#6 Fuel Oil (lb/MM
Btu)	

0091A	0.0831
-------	--------

0.2610

0091B	0.0865
-------	--------

0.2748

0094A	0.0866
-------	--------

0.2606

0094B	0.0697
-------	--------

0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 71: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 71.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001
Process: OIL

Emission Point: 00001
Emission Source: 0094A

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Permit ID: 2-6005-00133/00002

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Regulated Contaminant(s):

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

Item 71.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NOx emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NOx emissions to demonstrate compliance with this part.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094A). The NOx RACT for boilers operating on residual oil is a limit of 0.30 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NOx Emission Operating on
	NOx Emission Operating on
	Natural Gas (lb/MM
Btu)	#6 Fuel Oil (lb/MM
Btu)	

0091A	0.0831
-------	--------

0.2610

0091B	0.0865
-------	--------

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0.2748

0094A 0.0866

0.2606

0094B 0.0697

0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

**Condition 73: Applicability of General Provisions of 40 CFR 60 Subpart A
Effective between the dates of 06/07/2010 and 06/06/2015**

Applicable Federal Requirement: 40 CFR 60, NSPS Subpart A

Item 73.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 73.2:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

**Condition 74: EPA Region 2 address.
Effective between the dates of 06/07/2010 and 06/06/2015**

Applicable Federal Requirement: 40 CFR 60.4, NSPS Subpart A

Item 74.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 74.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the

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beginning of this permit) and to the following address:

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

**Condition 75: Date of Construction Notification - if a COM is used.
Effective between the dates of 06/07/2010 and 06/06/2015**

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

Item 75.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 75.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, postmarked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;
- 5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;
- 6) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and
- 7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Condition 76: Recordkeeping requirements.

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Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 76.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 76.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 77: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 77.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 77.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report semi-annually based on the calendar year (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be postmarked no later than 30 calendar days following the end of the reporting period, and shall contain the following information:

- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero span checks and the nature of the system repairs

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or adjustments; and

4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 78: Excess Emissions Report

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 78.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 78.2:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 79: Facility files for subject sources.

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 79.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 79.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 80: Performance testing timeline.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 80.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001

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Process: OIL

Emission Source: 0094A

Item 80.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 81: Performance test methods.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 81.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 81.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in this part or by alternative methods and procedures approved by the Administrator.

Condition 82: Required performance test information.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(c), NSPS Subpart A

Item 82.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 82.2:

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operate of the facility.

Condition 83: Prior notice.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 83.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 83.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

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Condition 84: Performance testing facilities.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.8(e), NSPS Subpart A

Item 84.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 84.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 85: Number of required tests.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.8(f), NSPS Subpart A

Item 85.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 85.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 86: Availability of information.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.9, NSPS Subpart A

Item 86.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 86.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 87: Opacity standard compliance testing.
Effective between the dates of 06/07/2010 and 06/06/2015

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Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 87.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 87.2:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

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

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

Condition 88: Circumvention.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 88.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 88.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

Condition 89: Monitoring requirements.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.13, NSPS Subpart A

Item 89.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 89.2:

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

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Condition 90: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.13(c), NSPS Subpart A

Item 90.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Item 90.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under §60.11(e)(5), he or she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40CFR 60 before the performance test required under §60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under §60.8 and as described in §60.11(e)(5) shall furnish the Administrator two or, upon request, more copies of a written report of the results of the COMS performance evaluation described in 40CFR60.13(c) at least 10 days before the performance test required under §60.8 is conducted.

(2) Except as provided in paragraph 40CFR60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 91: Modifications.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.14, NSPS Subpart A

Item 91.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 91.2:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 92: Reconstruction.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.15, NSPS Subpart A

Item 92.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094A

Item 92.2:

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

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air pollution control equipment;
- 6) an estimate of the fixed capital cost of the replacements and of constructing a comparable entirely new facility;
- 7) the estimated life of the facility after the replacements; and
- 8) a discussion of any economic or technical limitations the facility may have in complying with the applicable standards of performance after the proposed replacements.

Condition 93: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Applicable Federal Requirement: 40CFR 60.40c, NSPS Subpart Dc

Item 93.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 93.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under paragraph of Subpart 60.46c(a), an owner or operator may elect to determine the average SO₂ emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

40 CFR 60-Dc.40c, 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit in 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.40c, NSPS.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Reference Test Method: Method 19

Monitoring Frequency: PER DELIVERY

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Condition 94: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.40c, NSPS Subpart Dc

Item 94.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 94.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The affected facility to which this Subpart applies is each steam generating unit for which construction, modification or reconstruction commenced after June 9, 1989 and that has a maximum design heat input capacity of 100 million Btu/hr or less, but greater than or equal to 10 million Btu/hr. Steam generating units which meet the applicability requirements above are not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (Subparts 60.42c, 60.43c, 60.44c, 60.45c, 60.46c, or 60.47c) during periods of combustion research, as defined in Subpart 60.14. Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under Subpart 60.14.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094A).

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 95: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.42c(d), NSPS Subpart Dc

Item 95.1:

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Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 95.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

On or after the date on which the initial performance test is completed or required to be completed under section 60.8 of this part, no owner or operator of an affected facility that combusts oil shall combust residual oil with a sulfur content in excess of 0.3 percent by weight.

40 CFR 60-Dc.42c(d), 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit in 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.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Reference Test Method: ASTM Method D4292

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 96: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.43c(c), NSPS Subpart Dc

Item 96.1:

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The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Item 96.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood or oil and has a heat input capacity of 30 million BTU per hour or greater shall cause to be discharged into the atmosphere from an affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 97: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.44c(h), NSPS Subpart Dc

Item 97.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 97.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



The facility owner and/or operator must demonstrate compliance with the requirements of 40 CFR 60.42c(h). Facilities demonstrating compliance using the fuel supplier certification, for sulfur-in-fuel limitations (based on a percent by weight of sulfur in the fuel), shall submit the certification in accordance with the provisions of 40 CFR 60.48c(f)(1), (2) and (3) as applicable.

40 CFR 60-Dc.42c(h), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superceded 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit in 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(h), NSPS.

Process Material: NUMBER 6 OIL
Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.30 percent by weight
Reference Test Method: ASTM Method D4292
Monitoring Frequency: PER DELIVERY
Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 98: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.46c(d)(2), NSPS Subpart Dc

Item 98.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001	Emission Point: 00001
Process: OIL	Emission Source: 0094A

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

Item 98.2:

Compliance Certification shall include the following monitoring:

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

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Permit ID: 2-6005-00133/00002

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Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under paragraph of Subpart 60.46c(a), an owner or operator may elect to determine the average SO₂ emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

40 CFR 60-Dc.46c(d)(2), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superceded 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit in 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.46c(d)(2), NSPS.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Reference Test Method: Method 19

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 99: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.47c, NSPS Subpart Dc

Item 99.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Regulated Contaminant(s):

CAS No: 000000-00-0 PARTICULATES

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Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Item 99.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of an affected facility that combusts residual oil, coal or wood and has heat input capacity greater than 30 mmbtu/hr shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity averaging over 6-minutes, except for one 6-minute period per hour of not more than 27% opacity.

Facilities combusting oil subject to section 40 CFR 60-Dc.43c shall install, calibrate, maintain, and operate CEMs for opacity. All CEMs shall be operated in accordance with appendix B of part 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 27 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 100: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 100.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 100.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

i) The name of the oil supplier, and

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ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 101: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 101.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

Item 101.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 102: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 102.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094A

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Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Item 102.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 103: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.4 (c)

Item 103.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Regulated Contaminant(s):

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

Item 103.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

Albert Einstein College of Medicine (AECOM) is required to stack test the mid-size boiler (Emission Source 0094B - the 94 MM Btu/hr Babcock & Wilcox boiler) in order to demonstrate compliance with the NOx RACT emission limit regulatory standard of 0.10 pounds per million Btus when firing natural gas, and 0.30 pounds per million Btus when firing residual oil. The 94 MM Btu/hr Babcock & Wilcox boiler operates on natural gas (Process GAS) and residual oil (Process OIL).

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Permit ID: 2-6005-00133/00002

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A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

To comply with this Subpart, owners or operators of mid-size boilers must meet the requirements of either paragraph (1) or (2) of this subdivision by May 31, 1995. The emission limit for NO_x RACT for mid-size boiler (> 50 and equal to or < 100 MM Btu/hr) operating on residual oil is 0.30 pounds of NO_x per million Btus. The Albert Einstein College of Medicine is required to comply with the NO_x emission limit of 0.30 lbs/MM Btus under the NO_x RACT plan for mid-size boilers.

Compliance with the 0.30 lbs/MM Btus emission limit shall be determined with a one hour average in accordance with section 227-2.6(a)(4) of this Subpart unless the owner/operator opts to utilize CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If CEMS are utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24 hour averaging period.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094B). The NO_x RACT for mid-size boilers operating on residual oil has an emission limit regulatory standard of 0.30 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler Operating on	NO _x Emission Operating on	
	Natural Gas (lb/MM Btu) #6 Fuel Oil (lb/MM Btu)	
0091A	0.0831	
	0.2610	
0091B	0.0865	
	0.2748	
0094A	0.0866	
	0.2606	

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0094B 0.0697
0.2779

Parameter Monitored: OXIDES OF NITROGEN
Upper Permit Limit: 0.30 pounds per million Btus
Reference Test Method: Method 7, 7E or 19
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Averaging Method: 1-HOUR AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 104: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-2.6 (a) (4)

Item 104.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001	Emission Point: 00001
Process: OIL	Emission Source: 0094B

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

Item 104.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner/operator of mid-size boilers (>50 MM Btu/hr and equal or < 100 MM Btu/hr) shall measure NO_x emissions by performing stack tests in accordance with the emission test requirements described in subdivision (c) of this section. A mid-size boiler is defined as: A device with maximum heat input capacity greater than 50 million Btu per hour and equal to or less than 100 million Btu per hour, that combusts any fuel and produces steam or heats water or any other heat transfer medium.

The following unit shall perform testing to verify NO_x emissions to demonstrate compliance with this part.

This condition applies to the 94 MM

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Btu/hr Babcock & Wilcox boiler (Emission Source 0094B). The NO_x RACT for boilers operating on residual oil is a limit of 0.30 pounds per million Btu per hour.

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel oil were as follows:

Boiler	NO _x Emission Operating on NO _x Emission Operating on Natural Gas (lb/MM Btu)	#6 Fuel Oil (lb/MM Btu)
--------	--	----------------------------

0091A	0.0831
-------	--------

0.2610

0091B	0.0865
-------	--------

0.2748

0094A	0.0866
-------	--------

0.2606

0094B	0.0697
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0.2779

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 105: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 105.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Regulated Contaminant(s):

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Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



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

Item 105.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Albert Einstein College of Medicine is required to perform testing the mid-size boiler (Emission Source 0094B - the 94 MM Btu/hr Babcock & Wilcox boiler) to verify the NO_x emissions limit compliance. The 94 MM Btu/hr Babcock & Wilcox boiler operates on natural gas (GAS) and residual oil (Process OIL).

The owner/operator of mid-size boilers (> 50 and equal to or <100 MM Btu/hr) boilers operating on residual oil have a limit of 0.30 pounds of NO_x per million Btus under the NO_x RACT plan for mid-size boilers.

Emission test requirements: The owner/operator of a source required to conduct an emission test under subdivision (c) of 6 NYCRR 227-2.6 must:

1. Submit a compliance test protocol to the department for approval at least 30 days prior to emission testing. The conditions of the testing and the locations of the sampling devices must be acceptable to the department; and
2. 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 NO_x limit in section 227-2.4 of this Subpart, and must follow the procedures set forth in Part 202 of this Title.
 - i. For mid-size boilers (> 50 and equal to or <100 MM Btu/hr) boilers, utilize Method 7, 7E, or 19 from 40 CFR Part 60, Appendix A or another reference method approved by the department.
3. Submit a compliance test report containing the results of the emission test to the department no later than 60 days after the completion of the emission test.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094B) operating on residual oil (Process OIL).

The result of the December 17-21, 2009 stack testing on the four mid-size boilers with Emission Sources 0091A, 0091B, 0094A & 0094B operating on natural gas and #6 fuel

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oil were as follows:

Boiler Operating on	NOx Emission Operating on	NOx Emission
Natural Gas (lb/MM Btu)		
#6 Fuel Oil (lb/MM Btu)		

0091A	0.0831
0.2610	

0091B 0.0865
0.2748

0094A 0.0866
0.2606

0094B	0.0697
	0.2779

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 0.30 pounds per million Btus

Reference Test Method: Method 7, 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST

METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 106: Applicability of General Provisions of 40 CFR 60 Subpart A
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60, NSPS Subpart A

Item 106.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 106.2:

This emission source is subject to the applicable general provisions of 40 CFR 60. The facility owner is responsible for complying with all applicable technical, administrative and reporting requirements.

Condition 107: EPA Region 2 address.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.4, NSPS Subpart A

Item 107.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

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Item 107.2:

All requests, reports, applications, submittals, and other communications to the Administrator pursuant to this part shall be submitted in duplicate to the following address:

Director, Division of Enforcement and Compliance Assistance
USEPA Region 2
290 Broadway, 21st Floor
New York, NY 10007-1886

Copies of all correspondence to the administrator pursuant to this part shall also be submitted to the NYSDEC Regional Office issuing this permit (see address at the beginning of this permit) and to the following address:

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

**Condition 108: Date of Construction Notification - if a COM is used.
Effective between the dates of 06/07/2010 and 06/06/2015**

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

Item 108.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 108.2:

Any owner or operator subject to this part shall furnish the Administrator with the following information:

- 1) a notification of the date construction or reconstruction commenced, postmarked no later than 30 days after such date;
- 3) a notification of the actual date of initial start up, postmarked within 15 days after such date;
- 4) a notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless the change is specifically exempted under 40 CFR 60. The notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capability of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional information regarding the change;

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5) a notification of the date upon which the demonstration of continuous monitoring system performance commences, postmarked not less than 30 days prior to such date;

6) a notification of the anticipated date for conducting the opacity observations, postmarked not less than 30 days prior to such date; and

7) a notification that continuous opacity monitoring system data results will be used to determine compliance with the applicable opacity standard during the performance test, postmarked not less than 30 days prior to the performance test.

Condition 109: Recordkeeping requirements.

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 109.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 109.2:

Affected owners or operators shall maintain records of occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or any periods during which a continuous monitoring system or monitoring device is inoperative.

Condition 110: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 110.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 110.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Affected owners or operators shall submit an excess emissions report semi-annually based on the calendar year (or more frequently as required by the applicable Subpart or the Administrator), to the Administrator. These reports shall be postmarked no later than 30 calendar days following the end of the reporting period, and shall contain the following information:

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- 1) the magnitude of excess emissions computed, any conversion factors used, the date and time of each occurrence, and the process operating time during the reporting period;
- 2) specific identification of each period of excess emissions that occur during startup, shutdown, or malfunction, where the nature, cause, and corrective action are provided for a malfunction;
- 3) the date and time identifying each period during which the continuous monitoring system was inoperative except for zero span checks and the nature of the system repairs or adjustments; and
- 4) when no excess emissions have occurred or when the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be provided in the report.

Monitoring Frequency: CONTINUOUS

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 111: Excess Emissions Report

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 111.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 111.2:

A summary report form, for each pollutant monitored, shall be sent to the Administrator in the form prescribed in Figure 1 of 40 CFR Part 60.7(d).

Condition 112: Facility files for subject sources.

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 112.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 112.2:

The following files shall be maintained at the facility for all affected sources: all measurements, including continuous monitoring systems, monitoring device, and

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performance testing measurements; all continuous monitoring system evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and all other information required by this part, recorded in permanent form suitable for inspection. The file shall be maintained for at least two years following the date of such measurements, reports, and records.

Condition 113: Performance testing timeline.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(a), NSPS Subpart A

Item 113.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 113.2:

Within 60 days after achieving the maximum production rate, but not later than 180 days after initial startup of the facility, the owner or operator of the facility shall conduct performance testing and provide the results of such tests, in a written report, to the Administrator.

Condition 114: Performance test methods.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(b), NSPS Subpart A

Item 114.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 114.2:

Performance testing shall be conducted in accordance with the methods and procedures prescribed in this part or by alternative methods and procedures approved by the Administrator.

Condition 115: Required performance test information.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(c), NSPS Subpart A

Item 115.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 115.2:

Performance tests shall be conducted under such conditions specified by the Administrator, based upon representative performance data supplied by the owner or operate of the facility.

Condition 116: Prior notice.

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Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(d), NSPS Subpart A

Item 116.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 116.2:

The owner or operator shall provide the Administrator with prior notice of any performance test at least 30 days in advance of testing.

Condition 117: Performance testing facilities.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(e), NSPS Subpart A

Item 117.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 117.2:

The following performance testing facilities shall be provided during all tests:

- 1) sampling ports adequate for tests methods applicable to such facility;
- 2) a safe sampling platform;
- 3) a safe access to the sampling platform; and
- 4) utilities for sampling and testing equipment.

Condition 118: Number of required tests.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.8(f), NSPS Subpart A

Item 118.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 118.2:

Each performance test shall consist of three separate runs, at the specified duration required in the applicable test method. Compliance with all applicable standards shall be determined by using the arithmetic means of the results of the three runs.

Condition 119: Availability of information.

Effective between the dates of 06/07/2010 and 06/06/2015



Applicable Federal Requirement:40CFR 60.9, NSPS Subpart A

Item 119.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 119.2:

The availability to the public of information provided to, or otherwise obtained by, the Administrator under this part shall be governed by part 2 of this chapter.

Condition 120: Opacity standard compliance testing.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.11, NSPS Subpart A

Item 120.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 120.2:

The following conditions shall be used to determine compliance with the opacity standards:

1) observations shall be conducted in accordance with Reference Method 9, in Appendix A or this Part 40 CFR 60(or an equivalent method approved by the Administrator including continuous opacity monitors);

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

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

Condition 121: Circumvention.
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.12, NSPS Subpart A

Item 121.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 121.2:

No owner or operator subject to the provisions of this part shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

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Condition 122: Monitoring requirements.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.13, NSPS Subpart A

Item 122.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 122.2:

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

Condition 123: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.13(c), NSPS Subpart A

Item 123.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 123.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

If the owner or operator of an affected facility elects to submit continuous opacity monitoring system (COMS) data for compliance with the opacity standard as provided under §60.11(e)(5), he or she shall conduct a performance evaluation of the COMS as specified in Performance Specification 1, appendix B, of 40CFR 60 before the performance test required under §60.8 is conducted. Otherwise, the owner or operator of an affected facility shall conduct a performance evaluation of the COMS or continuous emission monitoring system (CEMS) during any performance test required under §60.8 or within 30 days thereafter in accordance with the applicable performance specification in appendix B of 40CFR 60. The owner or operator of an affected facility shall conduct COMS or CEMS performance evaluations at such other times as may be required by the Administrator under section 114 of the Act.

(1) The owner or operator of an affected facility using a COMS to determine opacity compliance during any performance test required under §60.8 and as described in §60.11(e)(5) shall furnish the Administrator two or, upon

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request, more copies of a written report of the results of the COMS performance evaluation described in 40CFR60.13(c) at least 10 days before the performance test required under §60.8 is conducted.

(2) Except as provided in paragraph 40CFR60.13(c)(1), the owner or operator of an affected facility shall furnish the Administrator within 60 days of completion two or, upon request, more copies of a written report of the results of the performance evaluation.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 124: Modifications.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.14, NSPS Subpart A

Item 124.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 124.2:

Within 180 days of the completion of any physical or operational change (as defined in section 60.14), compliance with the applicable standards must be achieved.

Condition 125: Reconstruction.

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.15, NSPS Subpart A

Item 125.1:

This Condition applies to Emission Unit: U-00001 Emission Point: 00001
Process: OIL Emission Source: 0094B

Item 125.2:

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

- 1) a notice of intent to reconstruct 60 days prior to the action;
- 2) name and address of the owner or operator;
- 3) the location of the existing facility;
- 4) a brief description of the existing facility and the components to be replaced;
- 5) a description of the existing air pollution control equipment and the proposed air

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pollution control equipment;

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

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

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

Condition 126: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.40c, NSPS Subpart Dc

Item 126.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 126.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under paragraph of Subpart 60.46c(a), an owner or operator may elect to determine the average SO₂ emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

40 CFR 60-Dc.40c, 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.

Albert Einstein College of Medicine must comply with the

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0.30 percent by weight sulfur content limit in 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.40c, NSPS.

Parameter Monitored: SULFUR CONTENT
Upper Permit Limit: 0.30 percent by weight
Reference Test Method: Method 19
Monitoring Frequency: PER DELIVERY
Averaging Method: 30-DAY ROLLING AVERAGE
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 127: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.40c, NSPS Subpart Dc

Item 127.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001	Emission Point: 00001
Process: OIL	Emission Source: 0094B

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

Item 127.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The affected facility to which this Subpart applies is each steam generating unit for which construction, modification or reconstruction commenced after June 9, 1989 and that has a maximum design heat input capacity of 100 million Btu/hr or less, but greater than or equal to 10 million Btu/hr. Steam generating units which meet the applicability requirements above are not subject to the sulfur dioxide (SO₂) or particulate matter (PM) emission limits, performance testing requirements, or monitoring requirements under this subpart (Subparts 60.42c, 60.43c, 60.44c, 60.45c, 60.46c., or 60.47c) during periods of combustion research, as defined in Subpart 60.14. Any temporary change to an existing steam generating unit for the purpose of conducting combustion research is not considered a modification under Subpart 60.14.

This condition applies to the 94 MM Btu/hr Babcock & Wilcox boiler (Emission Source 0094B).

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Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING

DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 128: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.42c(d), NSPS Subpart Dc

Item 128.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 128.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

On or after the date on which the initial performance test is completed or required to be completed under section 60.8 of this part, no owner or operator of an affected facility that combusts oil shall combust oil with a sulfur content in excess of 0.3 percent by weight.

40 CFR 60-Dc.42c(d), 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit in 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.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: NUMBER 6 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Reference Test Method: ASTM Method D4292

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY

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TIME (INSTANTANEOUS/DISCRETE OR GRAB)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 129: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.43c(c), NSPS Subpart Dc

Item 129.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001	Emission Point: 00001
Process: OIL	Emission Source: 0094B

Item 129.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

On and after the date on which the initial performance test is completed or required to be completed under §60.8 of this part, whichever date comes first, no owner or operator of an affected facility that combusts coal, wood or oil and has a heat input capacity of 30 million BTU per hour or greater shall cause to be discharged into the atmosphere from an affected facility any gases that exhibit greater than 20 percent opacity (6-minute average), except for one 6-minute period per hour of not more than 27 percent opacity.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 130: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.44c(h), NSPS Subpart Dc

Item 130.1:

The Compliance Certification activity will be performed for:

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Emission Unit: U-00001
Process: OIL

Emission Point: 00001
Emission Source: 0094B

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

Item 130.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

The facility owner and/or operator must demonstrate compliance with the requirements of 40 CFR 60.42c(h). Facilities demonstrating compliance using the fuel supplier certification, for sulfur-in-fuel limitations (based on a percent by weight of sulfur in the fuel), shall submit the certification in accordance with the provisions of 40 CFR 60.48c(f)(1), (2) and (3) as applicable.

40 CFR 60-Dc.42c(h), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superceded 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit as per 6 NYCRR 225-1.2(a)(2), which has more stringent limit in residual oil for New York City than 40 CFR 60-Dc.42c(h), NSPS.

Process Material: NUMBER 6 OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Reference Test Method: ASTM Method D4292

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 131: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.46c(d)(2), NSPS Subpart Dc

Item 131.1:

The Compliance Certification activity will be performed for:

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Emission Unit: U-00001
Process: OIL

Emission Point: 00001
Emission Source: 0094B

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

Item 131.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

As an alternative to operating a CEMs at the inlet to the SO₂ control device (or outlet of the steam generating unit if no SO₂ control device is used) as required under paragraph of Subpart 60.46c(a), an owner or operator may elect to determine the average SO₂ emission rate by sampling fuel prior to combustion.

As an alternative fuel sampling procedure for affected facilities combusting oil, oil samples may be collected from the fuel tank for each steam generating unit immediately after the fuel tank is filled and before any oil is combusted.

40 CFR 60-Dc.46c(d)(2), NSPS which limits the sulfur content in the oil to 0.5 percent by weight is superceded 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.

Albert Einstein College of Medicine must comply with the 0.30 percent by weight sulfur content limit in 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.46c(d)(2), NSPS.

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 0.30 percent by weight

Reference Test Method: Method 19

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 30-DAY ROLLING AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 132: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Applicable Federal Requirement:40CFR 60.47c, NSPS Subpart Dc

Item 132.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 132.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

No owner or operator of an affected facility that combusts residual oil, coal or wood and has heat input capacity greater than 30 mmbtu/hr shall cause to be discharged into the atmosphere from that affected facility any gases that exhibit greater than 20 percent opacity averaging over 6-minutes, except for one 6-minute period per hour of not more than 27% opacity.

Facilities combusting oil subject to section 40 CFR 60-Dc.43c shall install, calibrate, maintain, and operate CEMs for opacity. All CEMs shall be operated in accordance with appendix B of part 40 CFR 60.

Parameter Monitored: OPACITY

Upper Permit Limit: 27 percent

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING
DESCRIPTION

Averaging Method: 6 MINUTE AVERAGE

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 133: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:40CFR 60.48c(f)(1), NSPS Subpart Dc

Item 133.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

New York State Department of Environmental Conservation

Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



Regulated Contaminant(s):

CAS No: 007446-09-5

SULFUR DIOXIDE

Item 133.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Fuel supplier certification shall include the following information for distillate oil:

i) The name of the oil supplier, and

ii) A statement from the oil supplier that the oil complies with the specifications under the definition of distillate oil in §60.41c. 60-Dc 41c defines distillate oil as fuel that complies with the specifications for fuel oil numbers 1 or 2, as defined by the American Society for Testing and Materials in ASTM D396-78, A standard Specification for Fuel Oils.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 134: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 134.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Item 134.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

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

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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Permit ID: 2-6005-00133/00002

Facility DEC ID: 2600500133



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

Condition 135: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 135.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00001

Emission Point: 00001

Process: OIL

Emission Source: 0094B

Item 135.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

All records required under this section shall be maintained by the owner or operator of the affected facility for a period of two years following the date of such record, for determining compliance with the NSPS requirements.

**** NOTE**** Records shall be maintained for a minimum of five years to achieve compliance with the requirements of Title V.

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 136: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 136.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00002

Process: G01

Emission Source: CDRP1

Item 136.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired internal combustion engines which

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are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each internal combustion engine which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 137: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 137.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00002

Process: G01

Emission Source: CDRP1

Item 137.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

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

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revise its prospective record keeping format in a manner acceptable to the Department.

Parameter Monitored: OPACITY
Upper Permit Limit: 20 percent
Reference Test Method: Method 9
Monitoring Frequency: DAILY
Averaging Method: 6-MINUTE AVERAGE (METHOD 9)
Reporting Requirements: SEMI-ANNUALLY (CALENDAR)
Reports due 30 days after the reporting period.
The initial report is due 10/30/2010.
Subsequent reports are due every 6 calendar month(s).

Condition 138: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 138.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002	Emission Point: 00002
Process: G01	Emission Source: CDRP1

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

Item 138.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Albert Einstein College of Medicine is required to stack test the 900 KW Caterpillar D399 (Emission Source CDRP1) for NOx emission limit during the term of this permit ONLY if Emission Source CDRP1 participates or is utilized in the CDRP/SCR program(s).

The four stationary internal combustion engines (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4) in Emission Unit U-00002 are 900, 1000, 1750 and 1750 kilowatts each ; respectively (1259.6, 1340, 2345 and 2345 hp each), fire diesel fuel only, are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

The owner or operator of a stationary internal combustion



engine of 225 horsepower (200 horsepower beginning April 1, 2005) or larger in the severe ozone non-attainment area, that provides primary power or is used for peak shaving generation, must comply with the following NO_x RACT emission limit for a lean burn internal combustion engine, firing natural gas, and with compression ignition source:

(a) 9.0 grams per brake horsepower-hour through March 31, 2005;

(b) 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

The permit application included a NO_x RACT variance analysis based on Air Guide 20 to approve a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NO_x above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr). Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4). The NO_x variance is based on the results from the stack test that was conducted on May 13 & 14, 2009. The results were 7.3 gm/bhp-hr for Emission Source CDRP2, 4.0 gm/bhp-hr for Emission Source CDRP3, and 4.3 gm/bhp-hr for Emission Source CDRP4.

On June 5, 2009 Albert Einstein College of Medicine has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current four diesel engines use. To account for variability, the Department is setting the NO_x emission limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NO_x emission limit at 4.5 gm/bhp-hr for the two 1,750 KW each

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CAT 3516 engines in the Price Center (Emission Sources CDRP2 & CDRP3).

The four emergency generators will be participating in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NOx) emissions to 22.5 tpy.

Manufacturer Name/Model Number: Caterpillar D399, 1984 Model Year

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 2.3 grams per brake horsepower-hour

Reference Test Method: App A, M7 or 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 139: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 139.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00002

Process: G01

Emission Source: CDRP1

Regulated Contaminant(s):

CAS No: 000000-00-0 PARTICULATES

Item 139.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

Albert Einstein College of Medicine is required to stack test the 900 KW Caterpillar D399 (Emission Source CDRP1) for Particulates during the term of this permit ONLY if Emission Source CDRP1 participates or is utilized in the CDRP/SCR program(s).

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

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

1) Submit to the Department an acceptable protocol for the testing of particulate emissions in a manner that will determine compliance with the limit cited in this condition.

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2) Perform a stack test, based upon the approved test protocol, to determine compliance with the particulate emission limit cited in this condition.

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

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

Manufacturer Name/Model Number: Caterpillar D399, 1984 Model Year

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD AS PER REFERENCE TEST METHOD INDICATED

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-39: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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

Item 1-39.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00002

Process: GEN

Emission Source: CDRP1

Regulated Contaminant(s):

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

Item 1-39.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC OPERATIONS

Monitoring Description:

The 900 KW diesel fuel emergency generator (Emission Source CDRP1) will not be participating in the CDRP (Coordinated Demand Reduction Program), and stack testing.

If in the future, AECOM (Albert Einstein College of Medicine) decides to add this generator identified as CDRP1 (in the Chanin Building) to participate in the CDRP, then a NOx variance will be sought first before participation. Engine generator identified as CDRP1 in the Chanin Building fires diesel fuel oil (Process G01). All 4 generators fire diesel fuel oil. All 4 generators

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are large stationary internal combustion, lean burn, and compression ignition.

The emissions from Emission Source CDRP1 engine generator in the Chanin Building vent from its own separate stack, identified as Emission Point 00002.

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

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).

6 NYCRR 201-3.2(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.

6 NYCRR 200.1(cq):

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.

Work Practice Type: HOURS PER YEAR OPERATION

Upper Permit Limit: 500 hours

Monitoring Frequency: MONTHLY

Averaging Method: ANNUAL MAXIMUM ROLLED MONTHLY

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 1-40: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart IIII

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Item 1-40.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: GEN

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

Item 1-40.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The owner or operator of a stationary compression ignition internal combustion engine with a displacement of less than 30 liters per cylinder and which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel above a maximum aromatic content of 35 percent per gallon as referenced in 40 CFR Part 80.510(b) except that any diesel fuel purchased or otherwise obtained prior to October 1, 2010 may be used until depleted. Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the aromatic content for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: AROMATIC CONTENT

Upper Permit Limit: 35 percent

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-41: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart IIII

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Item 1-41.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: GEN

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

Item 1-41.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire diesel fuel below a minimum cetane index of 40 as referenced in 40 CFR Part 80.510(b) except that any diesel fuel purchased or otherwise obtained prior to October 1, 2010 may be used until depleted. Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the cetane index for each shipment of diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: CETANE INDEX

Lower Permit Limit: 40 ratio

Monitoring Frequency: PER DELIVERY

Averaging Method: MINIMUM - NOT TO FALL BELOW STATED
VALUE AT ANY TIME

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-42: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement: 40CFR 60.4207(b), NSPS Subpart IIII

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Item 1-42.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: GEN

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

Item 1-42.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: WORK PRACTICE INVOLVING SPECIFIC
OPERATIONS

Monitoring Description:

The owner or operator of a stationary compression ignition internal combustion engine displacing less than 30 liters per cylinder and which is subject to the requirements of subpart IIII of 40 CFR Part 60 may not fire any diesel fuel which exceeds a sulfur content of 15 ppm as per the non-road diesel fuel sulfur content standard set forth in 40 CFR Part 80.510(b) except that any diesel fuel purchased or otherwise obtained prior to October 1, 2010 may be used until depleted. Compliance shall be demonstrated by either sampling each delivery and conducting an appropriate analysis or by obtaining a certificate of analysis showing the sulfur content or range of sulfur content for each shipment of non-road diesel fuel provided by the fuel supplier. In either case, the owner or operator must verify that any required fuel analysis has been conducted using methodology acceptable to the Department. Records of all certificates of analysis provided by the fuel supplier and on-site fuel sampling results must be maintained on site for a minimum of five years.

Work Practice Type: PARAMETER OF PROCESS MATERIAL

Process Material: DIESEL OIL

Parameter Monitored: SULFUR CONTENT

Upper Permit Limit: 15 parts per million by weight

Monitoring Frequency: PER DELIVERY

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-43: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

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Permit ID: 2-6005-00133/00002

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Applicable Federal Requirement:40CFR 60.4209(a), NSPS Subpart IIII

Item 1-43.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: GEN

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

Item 1-43.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

The owner or operator of an emergency stationary compression ignition IC engine must install and maintain a non-resettable hour meter prior to startup to monitor engine usage

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: AS REQUIRED - SEE MONITORING DESCRIPTION

Condition 1-44: Compliance Certification

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:40CFR 60.4211(a), NSPS Subpart IIII

Item 1-44.1:

The Compliance Certification activity will be performed for the facility:

The Compliance Certification applies to:

Emission Unit: U-00002
Process: GEN

Emission Point: 00003
Emission Source: CDRP2

Emission Unit: U-00002
Process: GEN

Emission Point: 00004
Emission Source: CDRP3

Emission Unit: U-00002
Process: GEN

Emission Point: 00005
Emission Source: CDRP4

Item 1-44.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

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Monitoring Description:

The owner or operator of a stationary CI internal combustion engine must comply with the emission standards specified in 40 CFR 60 Subpart IIII and must do all of the following:

- (1) Operate and maintain the stationary CI internal combustion engine and control device according to the manufacturer's emission-related written instructions;
- (2) Change only those emission-related settings that are permitted by the manufacturer; and
- (3) Meet the requirements of 40 CFR parts 89, 94 and/or 1068, as they apply to the facility

Monitoring Frequency: AS REQUIRED - SEE PERMIT MONITORING DESCRIPTION

Reporting Requirements: ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 4/30/2014.

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

Condition 140: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 140.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00003

Process: G02

Emission Source: CDRP2

Item 140.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired internal combustion engines which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

- 1) Observe the stack for each internal combustion engine which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

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2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 141: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 141.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00003

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Process: G02

Emission Source: CDRP2

Item 141.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 142: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 142.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00003

Process: G02

Emission Source: CDRP2

Regulated Contaminant(s):

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

Item 142.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The four stationary internal combustion engines (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4) in Emission Unit U-00002 are 900, 1000, 1750 and 1750 kilowatts each ; respectively (1259.6, 1340, 2345 and 2345 hp each), fire diesel fuel only, are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

The owner or operator of a stationary internal combustion engine of 225 horsepower (200 horsepower beginning April 1, 2005) or larger in the severe ozone non-attainment area, that provides primary power or is used for peak shaving generation, must comply with the following NOx RACT emission limit for a lean burn internal combustion engine, firing natural gas, and with compression ignition source:

(a) 9.0 grams per brake horsepower-hour through March 31, 2005;

(b) 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this NOx emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator

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chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

The permit application included a NO_x RACT variance analysis based on Air Guide 20 to approve a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NO_x above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr). Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4). The NO_x variance is based on the results from the stack test that was conducted on May 13 & 14, 2009. The results were 7.3 gm/bhp-hr for Emission Source CDRP2, 4.0 gm/bhp-hr for Emission Source CDRP3, and 4.3 gm/bhp-hr for Emission Source CDRP4.

On June 5, 2009 Albert Einstein College of Medicine has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current four diesel engines use. To account for variability, the Department is setting the NO_x emission limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NO_x emission limit at 4.5 gm/bhp-hr for the two 1,750 KW each CAT 3516 engines in the Price Center (Emission Sources CDRP2 & CDRP3).

The four emergency generators will be participating in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NO_x) emissions to 22.5 tpy.

Manufacturer Name/Model Number: Caterpillar/3512, 1984 Model Year

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 7.5 grams per brake horsepower-hour

Reference Test Method: App A, M7 or 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 143: Compliance Certification

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Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 143.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00003

Process: G02

Emission Source: CDRP2

Regulated Contaminant(s):

CAS No: 000075-00-0 PARTICULATES

Item 143.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

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

Manufacturer Name/Model Number: Caterpillar/3512, 1984 Model Year

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 1-45: Compliance Certification

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Effective between the dates of 06/28/2013 and 06/06/2015

Applicable Federal Requirement:40CFR 80.510(b), Subpart I

Item 1-45.1:

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

Emission Unit: U-00002

Process: GEN

Emission Point: 00003

Emission Source: CDRP2

Emission Unit: U-00002

Process: GEN

Emission Point: 00004

Emission Source: CDRP3

Emission Unit: U-00002

Process: GEN

Emission Point: 00005

Emission Source: CDRP4

Item 1-45.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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.

Parameter Monitored: SULFUR

Upper Permit Limit: 15 parts per million by weight

Monitoring Frequency: PER BATCH OF PRODUCT/RAW MATERIAL
CHANGE

Averaging Method: MAXIMUM - NOT TO BE EXCEEDED AT ANY
TIME (INSTANTANEOUS/DISCRETE OR GRAB)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2013.

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

Condition 144: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement:6 NYCRR 227-1.3

Item 144.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Process: G34

Emission Point: 00004

Emission Source: CDRP3

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Item 144.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired internal combustion engines which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each internal combustion engine which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence. The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the

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stack.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 145: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 145.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00004

Process: G34

Emission Source: CDRP3

Item 145.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

Records of visible emissions observations (or any

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 146: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 146.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00004

Process: G34

Emission Source: CDRP3

Regulated Contaminant(s):

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

Item 146.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The four stationary internal combustion engines (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4) in Emission Unit U-00002 are 900, 1000, 1750 and 1750 kilowatts each ; respectively (1259.6, 1340, 2345 and 2345 hp each), fire diesel fuel only, are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

The owner or operator of a stationary internal combustion



engine of 225 horsepower (200 horsepower beginning April 1, 2005) or larger in the severe ozone non-attainment area, that provides primary power or is used for peak shaving generation, must comply with the following NO_x RACT emission limit for a lean burn internal combustion engine, firing natural gas, and with compression ignition source:

(a) 9.0 grams per brake horsepower-hour through March 31, 2005;

(b) 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this NO_x emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

The permit application included a NO_x RACT variance analysis based on Air Guide 20 to approve a Title V permit to operate these engines at the stack tested rates (i.e. when emitting NO_x above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr). Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4). The NO_x variance is based on the results from the stack test that was conducted on May 13 & 14, 2009. The results were 7.3 gm/bhp-hr for Emission Source CDRP2, 4.0 gm/bhp-hr for Emission Source CDRP3, and 4.3 gm/bhp-hr for Emission Source CDRP4.

On June 5, 2009 Albert Einstein College of Medicine has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current four diesel engines use. To account for variability, the Department is setting the NO_x emission limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NO_x emission limit at 4.5 gm/bhp-hr for the two 1,750 KW each

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CAT 3516 engines in the Price Center (Emission Sources CDRP2 & CDRP3).

The four emergency generators will be participating in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NOx) emissions to 22.5 tpy.

Manufacturer Name/Model Number: Caterpillar/3516, 2005 Model Year

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.5 grams per brake horsepower-hour

Reference Test Method: App A, M7 or 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 147: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 147.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00004

Process: G34

Emission Source: CDRP3

Regulated Contaminant(s):

CAS No: 0NY075-00-0 PARTICULATES

Item 147.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

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

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the results obtained from the testing done to meet the requirement of #2 above.

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

Manufacturer Name/Model Number: Caterpillar/3516, 2005 Model Year

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING

DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 148: Compliance Certification
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable Federal Requirement: 6 NYCRR 227-1.3

Item 148.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00005

Process: G34

Emission Source: CDRP4

Item 148.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: RECORD KEEPING/MAINTENANCE PROCEDURES

Monitoring Description:

Operators of oil-fired internal combustion engines which are not exempt from permitting and where a continuous opacity monitor is not utilized for measuring smoke emissions, shall be required to perform the following:

1) Observe the stack for each internal combustion engine which is operating on oil once per day for visible emissions. This observation(s) must be conducted during daylight hours except during adverse weather conditions (fog, rain, or snow).

2) The results of each observation must be recorded in a bound logbook or other format acceptable to the Department. The following data must be recorded for each stack:

- weather condition
- was a plume observed?

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This logbook must be retained at the facility for five (5) years after the date of the last entry.

3) If the operator observes any visible emissions (other than steam - see below) two consecutive days firing oil (the firing of other fuels in between days of firing oil does not count as an interruption in the consecutive days of firing oil), then a Method 9 analysis (based upon a 6-minute mean) of the affected emission point(s) must be conducted within two (2) business days of such occurrence.

The results of the Method 9 analysis must be recorded in the logbook. The operator must contact the Regional Air Pollution Control Engineer within one (1) business day of performing the Method 9 analysis if the opacity standard is contravened. Upon notification, any corrective actions or future compliance schedules shall be presented to the Department for acceptance.

**** NOTE **** Steam plumes generally form after leaving the top of the stack (this is known as a detached plume). The distance between the stack and the beginning of the detached plume may vary, however, there is (normally) a distinctive distance between the plume and stack. Steam plumes are white in color and have a billowy consistency. Steam plumes dissipate within a short distance of the stack (the colder the air the longer the steam plume will last) and leave no dispersion trail downwind of the stack.

Monitoring Frequency: DAILY

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 149: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 149.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00005

Process: G34

Emission Source: CDRP4

Item 149.2:

Compliance Certification shall include the following monitoring:

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

Monitoring Description:

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

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

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

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

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

Parameter Monitored: OPACITY

Upper Permit Limit: 20 percent

Reference Test Method: Method 9

Monitoring Frequency: DAILY

Averaging Method: 6-MINUTE AVERAGE (METHOD 9)

Reporting Requirements: SEMI-ANNUALLY (CALENDAR)

Reports due 30 days after the reporting period.

The initial report is due 10/30/2010.

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

Condition 150: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 150.1:

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The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00005

Process: G34

Emission Source: CDRP4

Regulated Contaminant(s):

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

Item 150.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

The four stationary internal combustion engines (Emission Sources CDRP1, CDRP2, CDRP3 & CDRP4) in Emission Unit U-00002 are 900, 1000, 1750 and 1750 kilowatts each ; respectively (1259.6, 1340, 2345 and 2345 hp each), fire diesel fuel only, are lean burn internal combustion engines with compression ignition source. Stack testing will be required in order to demonstrate compliance with the NOx RACT emission limit regulatory standard for a lean burn internal combustion engine with compression ignition source is 9.0 grams per brake horsepower-hour through March 31, 2005, and 2.3 grams per brake horsepower-hour beginning April 1, 2005.

The owner or operator of a stationary internal combustion engine of 225 horsepower (200 horsepower beginning April 1, 2005) or larger in the severe ozone non-attainment area, that provides primary power or is used for peak shaving generation, must comply with the following NOx RACT emission limit for a lean burn internal combustion engine, firing natural gas, and with compression ignition source:

(a) 9.0 grams per brake horsepower-hour through March 31, 2005;

(b) 2.3 grams per brake horsepower-hour beginning April 1, 2005.

Compliance with this NOx emission limit must be determined with a 1-hour average in accordance with section 227-2.6(a)(7) of this Subpart unless the owner or operator chooses to utilize a CEMS under the provisions of section 227-2.6(a)(2) of this Subpart. If a CEMS is utilized, the requirements of section 227-2.6(b) of this Subpart apply, including the use of a 24-hour averaging period.

The permit application included a NOx RACT variance analysis based on Air Guide 20 to approve a Title V permit to operate these engines at the stack tested rates (i.e.

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when emitting NO_x above 2.3 gm/bhp-hr but below 9.0 gm/bhp-hr). Only three of the four intended engines were stack tested. The engine identified as Emission Source CDRP1 will not participate in the CDRP program until it is tested and a variance is sought. Therefore, at this time, AECOM is requesting a variance on the three stack tested generators only (identified as Emission Sources CDRP2, CDRP3 & CDRP4). The NO_x variance is based on the results from the stack test that was conducted on May 13 & 14, 2009. The results were 7.3 gm/bhp-hr for Emission Source CDRP2, 4.0 gm/bhp-hr for Emission Source CDRP3, and 4.3 gm/bhp-hr for Emission Source CDRP4.

On June 5, 2009 Albert Einstein College of Medicine has submitted Engine NO_x RACT Compliance Plan pursuant to 6 NYCRR 227 to NYSDEC Region II Office to meet compliance for a reduced rate of NO_x emissions from the newly implemented 2.3 gm/bhp-hr, maintaining the current actual 9.0 gm/bhp-hr NO_x emissions as RACT. The plan contained a proposed variance to meeting the emission limit. The plan presents economic and technical criteria supporting the non-feasibility of adopting any new operating conditions to the current four diesel engines use. To account for variability, the Department is setting the NO_x emission limit at 7.5 gm/bhp-hr for the 1,000 KW CAT D399 engine in the Ullmann Building (Emission Source CDRP2), and NO_x emission limit at 4.5 gm/bhp-hr for the two 1,750 KW each CAT 3516 engines in the Price Center (Emission Sources CDRP2 & CDRP3).

The four emergency generators will be participating in the Coordinated Demand Response Program (CDRP) or any other peak load shaving program, by capping their total Oxides of Nitrogen (NO_x) emissions to 22.5 tpy.

Manufacturer Name/Model Number: Caterpillar/3516, 2005 Model Year

Parameter Monitored: OXIDES OF NITROGEN

Upper Permit Limit: 4.5 grams per brake horsepower-hour

Reference Test Method: App A, M7 or 7E or 19

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: 1-HOUR AVERAGE

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE

Condition 151: Compliance Certification

Effective between the dates of 06/07/2010 and 06/06/2015

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

Item 151.1:

The Compliance Certification activity will be performed for:

Emission Unit: U-00002

Emission Point: 00005

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Process: G34

Emission Source: CDRP4

Regulated Contaminant(s):

CAS No: 000000-00-0 PARTICULATES

Item 151.2:

Compliance Certification shall include the following monitoring:

Monitoring Type: INTERMITTENT EMISSION TESTING

Monitoring Description:

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

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

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

Parameter Monitored: PARTICULATES

Upper Permit Limit: 0.10 pounds per million Btus

Reference Test Method: EPA RM 5

Monitoring Frequency: ONCE DURING THE TERM OF THE PERMIT

Averaging Method: AVERAGING METHOD - SEE MONITORING DESCRIPTION

Reporting Requirements: ONCE / BATCH OR MONITORING OCCURRENCE



STATE ONLY ENFORCEABLE CONDITIONS

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

NOTIFICATION OF GENERAL PERMITTEE OBLIGATIONS

This section contains terms and conditions which are not federally enforceable. Permittees may also have other obligations under regulations of general applicability

Item A: General Provisions for State Enforceable Permit Terms and Condition - 6 NYCRR Part 201-5

Any person who owns and/or operates stationary sources shall operate and maintain all emission units and any required emission control devices in compliance with all applicable Parts of this Chapter and existing laws, and shall operate the facility in accordance with all criteria, emission limits, terms, conditions, and standards in this permit. Failure of such person to properly operate and maintain the effectiveness of such emission units and emission control devices may be sufficient reason for the Department to revoke or deny a permit.

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

STATE ONLY APPLICABLE REQUIREMENTS

The following conditions are state applicable requirements and are not subject to compliance certification requirements unless otherwise noted or required under 6 NYCRR Part 201.

Condition 152: Contaminant List

Effective between the dates of 06/07/2010 and 06/06/2015

Applicable State Requirement:ECL 19-0301

Item 152.1:

Emissions of the following contaminants are subject to contaminant specific requirements in this permit(emission limits, control requirements or compliance monitoring conditions).

CAS No: 007446-09-5

Name: SULFUR DIOXIDE

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CAS No: 0NY075-00-0
Name: PARTICULATES

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

Condition 1-46: Malfunctions and start-up/shutdown activities
Effective between the dates of 06/28/2013 and 06/06/2015

Applicable State Requirement:6 NYCRR 201-1.4

Item 1-46.1:

(a) The facility owner or operator shall take all necessary and appropriate actions to prevent the emission of air pollutants that result in contravention of any applicable emission standard during periods of start-up, shutdown, or malfunction.

(b) The facility owner or operator shall compile and maintain records of all equipment malfunctions, maintenance, or start-up/shutdown activities when they can be expected to result in an exceedance of any applicable emission standard, and shall submit a report of such activities to the department when requested to do so, or when so required by a condition of a permit issued for the corresponding air contamination source. Such reports shall state whether any violations occurred and, if so, whether they were unavoidable, include the time, frequency and duration of the maintenance and/or start-up/shutdown activities, and an estimate of the emission rates of any air contaminants released. Such records shall be maintained for a period of at least five years and made available for review to department representatives upon request. Facility owners or operators subject to continuous stack monitoring and quarterly reporting requirements need not submit additional reports for equipment maintenance or start-up/shutdown activities for the facility to the department.

(c) In the event that emissions of air contaminants in excess of any emission standard in this Subchapter occur due to a malfunction, the facility owner or operator shall compile and maintain records of the malfunction and notify the department as soon as possible during normal working hours, but not later than two working days after becoming aware that the malfunction occurred. When requested by the department, the facility owner or operator shall submit a written report to the department describing the malfunction, the corrective action taken, identification of air contaminants, and an estimate of the emission rates.

(d) The department may also require the owner or operator to include, in reports described under Subdivisions (b) and (c) of this Section, an estimate of the maximum ground level concentration of each air contaminant emitted and the effect of such emissions.

(e) A violation of any applicable emission standard resulting from start-up, shutdown, or malfunction conditions at a permitted or registered facility may not be subject to an enforcement action by the department and/or penalty if the department determines, in its sole discretion, that such a violation was unavoidable. The actions and recordkeeping and reporting requirements listed above must be adhered to in such circumstances.

Condition 154: Air pollution prohibited
Effective between the dates of 06/07/2010 and 06/06/2015

Applicable State Requirement:6 NYCRR 211.2

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Item 154.1:

No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others.

Condition 1-47: Visible Emissions Limited

Effective between the dates of 06/28/2013 and 06/06/2015

Applicable State Requirement:6 NYCRR 211.2

Item 1-47.1:

Except as permitted by a specific part of this Subchapter and for open fires for which a restricted burning permit has been issued, no person shall cause or allow any air contamination source to emit any material having an opacity equal to or greater than 20 percent (six minute average) except for one continuous six-minute period per hour of not more than 57 percent opacity.

